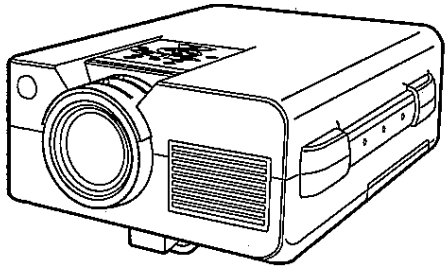
SHARP

SERVICE MANUAL
SERVICE-ANLEITUNG
维修手册

SX9R9XGNV51XE



LCD PROJECTOR
LCD PROJEKTOR
液晶投影机

MODELS
MODELLE
型号

XG-NV51XE/XM/XA

In the interests of user-safety (Required by safety regulations in some countries) the set should be restored to its original condition and only parts identical to those specified should be used.

Im Interesse der Benutzersicherheit (erforderliche Sicherheitsregeln in einigen Ländern) muß das Gerät in seinen Originalzustand gebracht werden. Außerdem dürfen für die spezifizierten Bauteile nur identische Teile verwendet werden.

为了用户安全起见（根据一些国家的安全规程的需要），应将液晶投影机保持于最初的状态，而且只能使用与指定物相同的部件。

SHARP CORPORATION

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NOTE TO SERVICE PERSONNEL

UV-RADIATION PRECAUTION

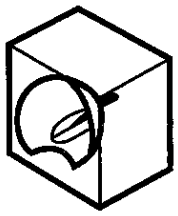
The light source, metal halide lamp, in the LCD projector emits small amounts of UV-Radiation.

AVOID DIRECT EYE AND SKIN EXPOSURE.

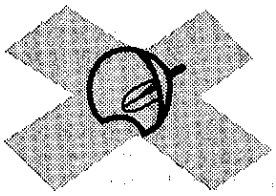
To ensure safety please adhere to the following:

1. Be sure to wear sun-glasses when servicing the projector with the lamp turned "on" and the top enclosure removed.

2. Do not operate the lamp outside of the lamp housing.



3. Do not operate for more than 2 hours with the enclosure removed.



UV-Radiation and Medium Pressure Lamp Precautions

1. Be sure to disconnect the AC plug when replacing the lamp.
2. Allow one hour for the unit to cool down before servicing.
3. Replace only with same type lamp. Type CLMPF0057DE03 or BQC-XGNV51XE1 rated 75V/180W.
4. The lamp emits small amounts of UV-Radiation, avoid direct-eye contact.
5. The medium pressure lamp involves a risk of explosion. Be sure to follow installation instructions described below and handle the lamp with care.

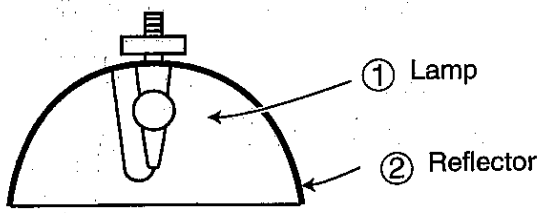
■ Lamp Replacement

Note:

Since the lamp reaches a very high temperature during units operation replacement of the lamp should be done at least one hour after the power has been turned off. (to allow the lamp to cool off.)

Installing the new lamp, make sure not to touch the lamp (bulb) replace the lamp by holding its reflector ②.

[Use original replacement only.]



DANGER ! — Never turn the power on without the lamp to avoid electric-shock or damage of the devices since the stabilizer generates high voltages at its start.

Since small amounts of UV-Radiation are emitted from an opening between the duct cover and the lamp housing, it is recommended to place the LENS CAP on the opening during servicing to avoid eye and skin exposurem (Fig. 1).

Note: Please obtain a lens cap before servicing a models XG-NV51XE/XM/XA that is received without one.

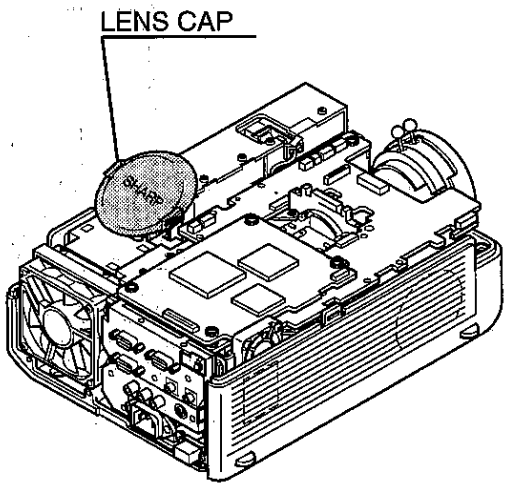


Figure 1.

Specifications

Product type	LCD Projector
Model	XG-NV51XE / XM / XA
Video system	PAL/SECAM/NTSC 3.58/NTSC 4.43
Display method	LCD panel × 3, RGB optical shutter method
LCD panel	Panel size: 22.9 mm (0.9") (13.9 [H] × 18.5 [W] mm) Display method: Translucent TN liquid crystal panel Drive method: TFT (Thin Film Transistor) Active Matrix panel No. of dots: 786,432 dots (1,024 [H] × 768 [V])
Lens	1–1.3× zoom lens, F1.7–2.0, f = 33–43 mm
Projection lamp	DC 180 W lamp
Contrast ratio	200:1
Video input signal	RCA Connector: VIDEO, composite video, 1.0 Vp-p, sync negative, 75 Ω terminated RCA Connector: AUDIO, 0.5 Vrms more than 22 kΩ (stereo)
S-video input signal	4-pin mini DIN connector Y (luminance signal): 1.0 Vp-p, sync negative, 75 Ω terminated C (chrominance signal): Burst 0.286 Vp-p, 75 Ω terminated
Horizontal resolution	580 TV lines (video input), 700 TV lines (S-video input)
Audio output	2 W (monaural)
Computer RGB input signal	*Video signal* 15-PIN MINI D-SUB CONNECTOR (Computer Input Port 1, 2): RGB separate/composite sync/sync on green type analog input: 0–0.7 Vp-p, positive, 75 Ω terminated STEREO MINIJACK: AUDIO, 0.5 Vrms, more than 22 kΩ (stereo) HORIZONTAL SYNC. SIGNAL: TTL level (positive/negative) or composite sync (Apple only) VERTICAL SYNC. SIGNAL: Same as above
Computer control signal	9-pin D-sub male connector (RS-232C Input Port)
Speaker system	3 9/32" (8 cm) round
Rated voltage	AC 110–120/220–240 V
Input current	2.6 A/1.3 A
Rated frequency	50/60 Hz
Power consumption	290 W
Operating temperature	+5°C to +40°C
Storage temperature	−20°C to +60°C
Cabinet	Plastic
I/R carrier frequency	40 kHz
Laser pointer of "Power" remote control	*Wave length:* 670 nm *Max. output:* 1 mW Class II Laser Product
Dimensions (approx.)	229 × 121 × 310 mm (W × H × D) (main body only) 243.5 × 128 × 346.4 mm (W × H × D) (including an adjustment foot and projecting parts)
Weight (approx.)	4.9 kg
Supplied accessories	"Power" remote control, Simple presentation remote control, Four AA size batteries, Two AAA size batteries, Power cord (3 m), Computer cable (3 m), Computer audio cable (3 m), Macintosh adaptor, Mouse control serial cable (1 m), Mouse control cable for IBM PS/2 (1 m), Mouse control cable for Mac (17 cm), Remote mouse receiver, Extra air filter, Lens cap (attached), Carrying bag, CD-ROM, LCD projector operation manual, LCD projector quick reference, Sharp Advanced Presentation Software operation manual, Sharp Advanced Presentation Software quick reference, IrDA driver installation instruction sheet
Replacement parts	"Power" remote control (RRMCG1471CESA), Simple presentation remote control (RRMCG1480CESA), AA size batteries, AAA size batteries, Power cord, Computer cable (QCNW-5108CEZZ), Computer audio cable (QCNW-4870CEZZ), Macintosh adaptor (QPLGJ1512CEZZ), Mouse control serial cable (QCNW-5112CEZZ), Mouse control cable for IBM PS/2 (QCNW-5113CEZZ), Mouse control cable for Mac (QCNW-5114CEZZ), Remote mouse receiver (RUNTK0661CEZZ), Air filter (PFILD0076CEZZ), Lens cap (GCOVH1307CESA), Carrying bag (GCASN0001CESA), CD-ROM, LCD projector operation manual, LCD projector quick reference , Sharp Advanced Presentation Software operation manual, Sharp Advanced Presentation Software quick reference , IrDA driver installation instruction sheet

This SHARP projector uses LCD (Liquid Crystal Display) panels. These very sophisticated panels contain 786,432 pixels (× RGB) TFTs (Thin Film Transistors). As with any high technology electronic equipment such as large screen TVs, video systems and video cameras, there are certain acceptable tolerances that the equipment must conform to.

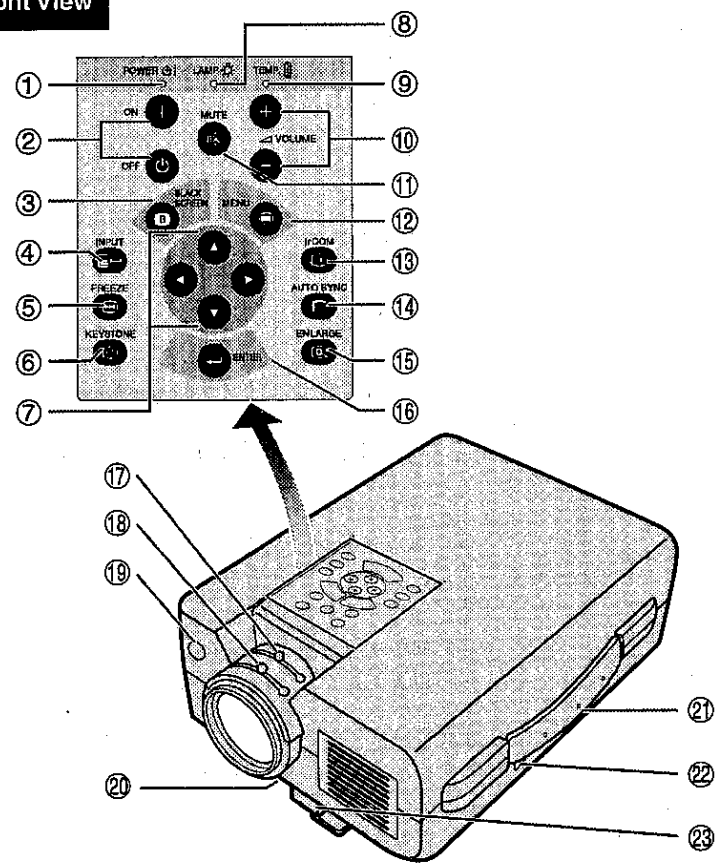
This unit has some inactive TFTs within acceptable tolerances which may result in illuminated or inactive dots on the picture screen. This will not affect the picture quality or the life expectancy of the unit.

Specifications are subject to change without notice.

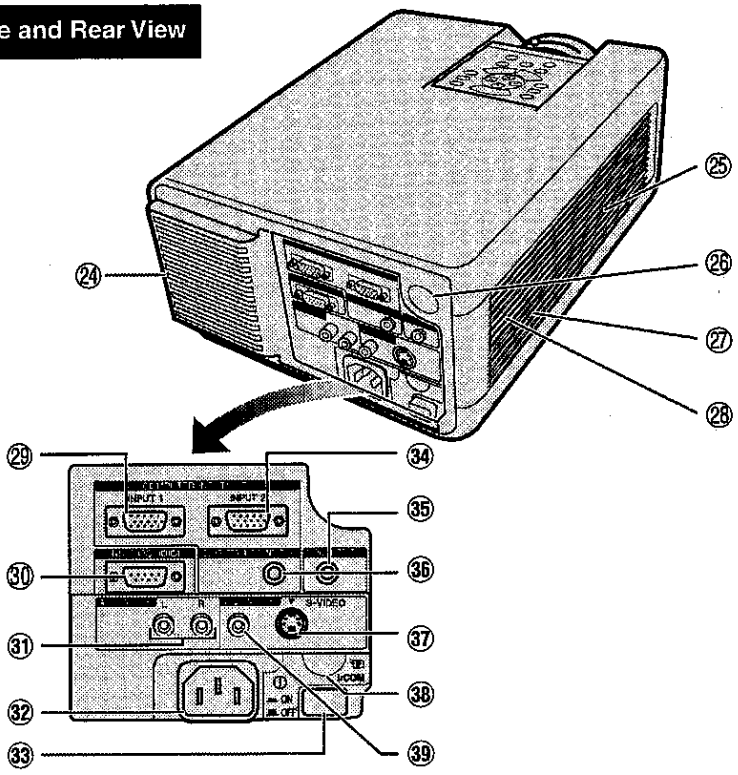
Location of Controls

Projector

Front View



Side and Rear View



① POWER indicator
② POWER buttons (ON/OFF)

③ BLACK SCREEN button
④ INPUT SELECT button

⑤ FREEZE button
⑥ KEYSTONE button
⑦ ADJUSTMENT buttons (▲/▼/◄/►)

⑧ LAMP REPLACEMENT indicator

⑨ TEMPERATURE WARNING indicator
⑩ VOLUME buttons (+/−)
⑪ MUTE button
⑫ MENU button

⑬ IrCOM button
⑭ AUTO SYNC button
⑮ ENLARGE button
⑯ ENTER button

⑰ Zoom knob
⑱ Focus knob
⑲ Remote control sensor
⑳ Air filter /Cooling fan (Intake vent)
㉑ Carrying handle
㉒ Kensington Security Standard connector
㉓ Foot release
㉔ Cooling fan (Exhaust vent)
㉕ Speaker
㉖ Remote control sensor
㉗ Cooling fan (Intake vent)
㉘ Air filter
㉙ COMPUTER INPUT 1 port (HD-15)
㉚ RS-232C port (9-pin D-sub)

㉛ AUDIO INPUT terminals: RCA

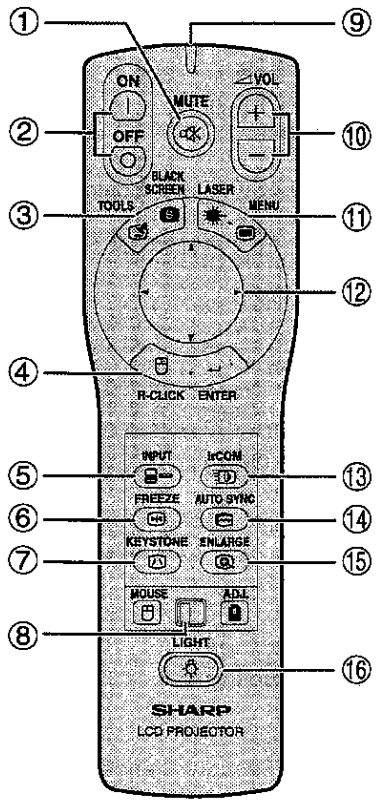
㉜ AC socket
㉝ MAIN POWER switch

㉞ COMPUTER INPUT 2 port (HD-15)
㉟ AUDIO OUTPUT terminal (3.5 mm stereo minijack)
㊱ COMPUTER AUDIO INPUT terminal (3.5 mm stereo minijack)

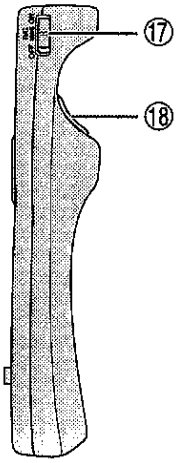
㊲ S-VIDEO INPUT terminal: 4 pin mini DIN
㊳ IrCOM sensor
㊴ VIDEO INPUT terminal: RCA

"Power" Remote Control

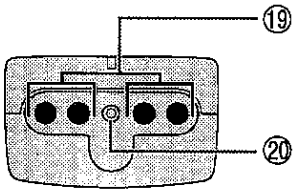
Front View



Side View



Top View



① MUTE button
② POWER buttons (ON/OFF)
③ BLACK SCREEN/TOOLS button
④ RIGHT-CLICK/ENTER button

⑤ INPUT button
⑥ FREEZE button
⑦ KEYSTONE button
⑧ MOUSE/ADJUSTMENT switch

⑨ TRANSMISSION indicator
⑩ VOLUME buttons (+/−)
⑪ LASER POINTER/MENU button

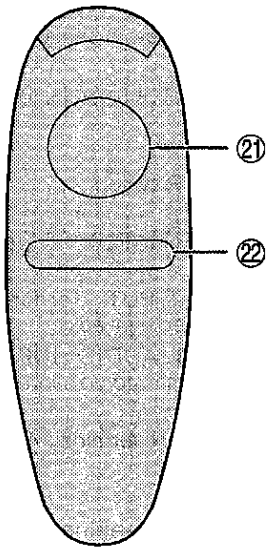
⑫ MOUSE/ADJUSTMENT buttons (▲/▼/◀/▶)

⑬ IrCOM button
⑭ AUTO SYNC button
⑮ ENLARGE button
⑯ BACKLIGHT button
⑰ MAIN POWER switch
⑱ LEFT-CLICK (BACK) button

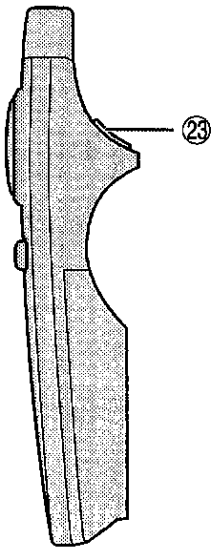
⑲ Remote control signal transmitter
⑳ Laser pointer window
㉑ MOUSE button
㉒ RIGHT-CLICK button
㉓ LEFT-CLICK button

Simple Presentation Remote Control

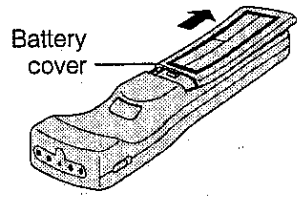
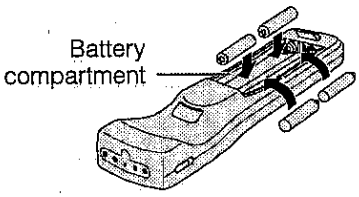
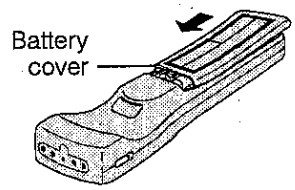
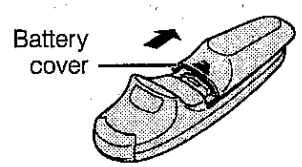
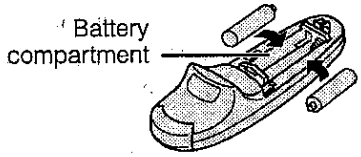
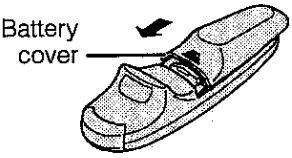
Front View



Side View



Inserting the batteries

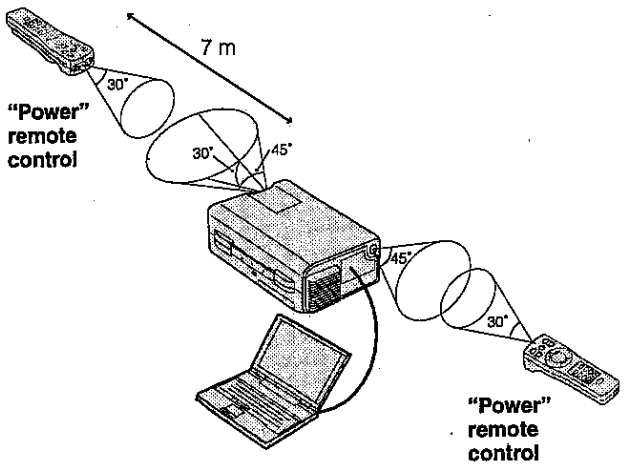
1 Press in and downward on the arrow to remove the battery cover.	2 Insert four AA size batteries for the "Power" remote control and two AAA size batteries for the simple presentation remote control making sure their polarities match the + and − marks inside the battery compartment.	3 Insert the side tabs of the battery cover into their slots and press the cover in until it is properly seated.
		
		

- The "Power" remote control can be used to control the projector within the ranges shown below.
- The remote mouse receiver can be used with the "Power" remote control or the simple presentation remote control to control the mouse functions of a connected computer within the ranges shown below.

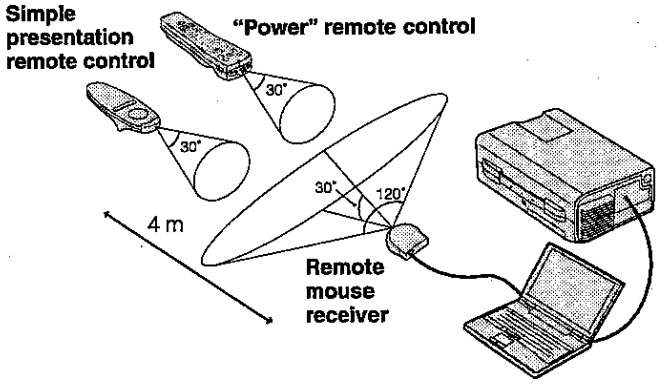
NOTE

- The signal from the remote controls can be reflected off a screen for easy operation. However, the effective distance of the signal may differ due to the screen material.

Controlling the Projector

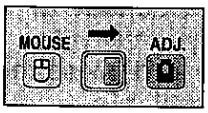


Using the Wireless Mouse

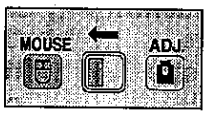


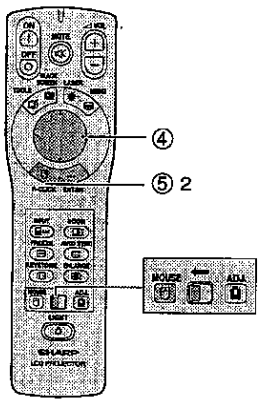
Operating the Wireless Mouse Remote Control

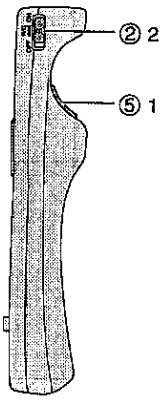
When operating the projector controls

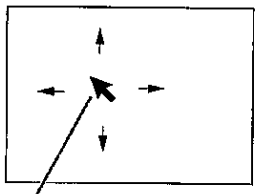


When operating the wireless mouse or using the laser pointer



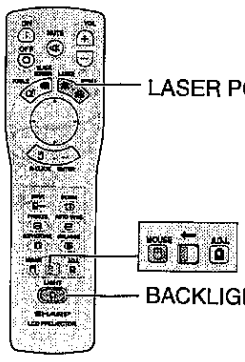






Mouse cursor

Button name	Position of MOUSE/ADJUSTMENT switch MOUSE ⟷ ADJ.	
LASER POINTER/MENU	LASER POINTER (GREEN)	MENU (RED)
BLACK SCREEN/TOOLS	BLACK SCREEN (GREEN)	TOOLS (RED)
RIGHT-CLICK/ENTER	RIGHT-CLICK (GREEN)	ENTER (RED)
MOUSE/ADJUSTMENT	MOUSE (NOT LIT)	ADJUSTMENT (NOT LIT)
LEFT-CLICK/BACK	LEFT-CLICK (NOT LIT)	BACK (NOT LIT)
POWER ON/OFF	ON (RED)	
VOLUME +/−		
MUTE		
INPUT		
IrCOM		
FREEZE		
AUTO SYNCHRONIZATION		
KEYSTONE		
ENLARGE		



The "Power" remote control has the following three functions:

- Operation of projector controls
- Operation of wireless mouse
- Use of laser pointer

Slide the **MOUSE/ADJUSTMENT** switch to the MOUSE or ADJ. position for use of the function.

① Connect the projector to a computer

② Wireless mouse operation

1. After connecting the projector and the computer, turn the projector on first. The computer should always be turned on last.
2. Slide the **MAIN POWER** switch on the "Power" remote control to ON.

③ Selecting the operation mode

To use the "Power" remote control as a wireless mouse, slide the **MOUSE/ADJUSTMENT** switch to the MOUSE position.

NOTE

- To use the "Power" remote control to operate the projector, slide the **MOUSE/ADJUSTMENT** switch to the ADJ. position.
- The wireless mouse or RS-232C function may not operate if your computer serial port is not correctly set up. Please refer to the computer's operation manual for details on setting up/installing the correct mouse driver.

④ Moving the mouse cursor

Press ▲/▼/◀/▶ on the "Power" remote control to move the mouse cursor around the screen.

NOTE

- The supplied simple presentation remote control can also be used for wireless mouse operation.

⑤ Using the mouse buttons for two-button mouse systems

The wireless mouse is configured to be used as a standard two-button mouse (desktop mouse).

1. Use **LEFT-CLICK** on the back of the "Power" remote control as the "Left Click" of a standard desktop mouse.
2. Use **RIGHT-CLICK** on the front of the "Power" remote control as the "Right Click" of a standard desktop mouse.

NOTE

- For one-button mouse systems, use either the **LEFT-CLICK** or **RIGHT-CLICK** button.

Using the laser pointer

Slide the **MOUSE/ADJUSTMENT** switch to the MOUSE position, and then press **LASER POINTER** (✷) to activate the laser pointer. When the button is released, the light automatically goes off.

NOTE

- For safety reasons, the laser pointer automatically goes off after 1 minute of continuous use. To turn it on again, press **LASER POINTER** (✷) one more time.

Using the "Power" remote control in a dark room

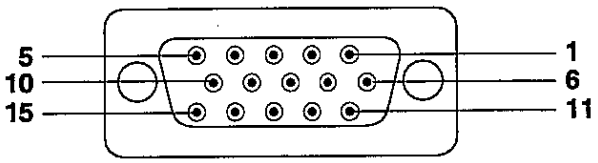
The "Power" remote control has a backlight function. When **BACKLIGHT** is pressed, the remote buttons light up. Green light refers to mouse operations, and red light to projector adjustments.

NOTE

- If the **MAIN POWER** switch on the "Power" remote control is left on for more than 10 minutes without operation, the power will automatically turn off. To turn the power back on, press any button on the remote control for more than one second.

Connection Pin Assignments

Analog Computer 1 and 2 Signal Input Ports: 15-pin mini D-sub female connector

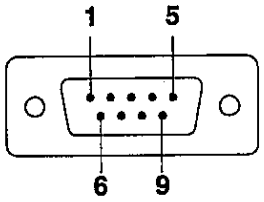


Computer Input

Analog

1. Video input (red)
2. Video input (green/sync on green)
3. Video input (blue)
4. Reserve input 1
5. Composite sync
6. Earth (red)
7. Earth (green/sync on green)
8. Earth (blue)
9. Not connected
10. GND
11. GND
12. Bi-directional data
13. Horizontal sync signal
14. Vertical sync signal
15. Data clock

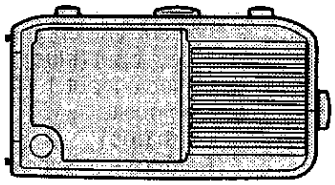
RS-232C Port: 9-pin D-sub male connector



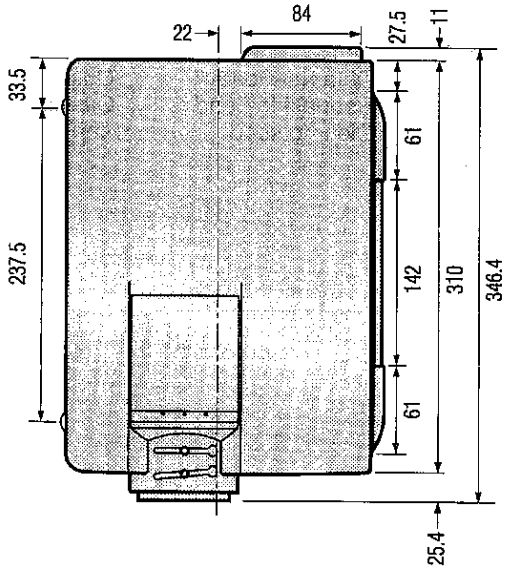
Pin No.	Signal	Name	I/O	Reference
1	CD			Not connected
2	RD	Receive Data	Input	Connected to internal circuit
3	SD	Send Data	Output	Connected to internal circuit
4	ER			Not connected
5	SG	Signal Ground		Connected to internal circuit
6	DR	Data Set Ready	Output	Not connected
7	RS	Request to Send	Output	Connected to internal circuit
8	CS	Clear to send	Input	Connected to internal circuit
9	CI			Not connected

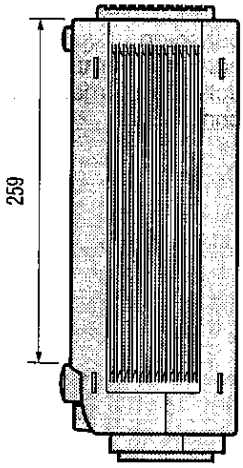
Dimensions

Rear View

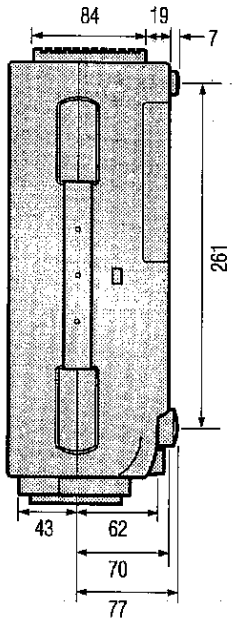


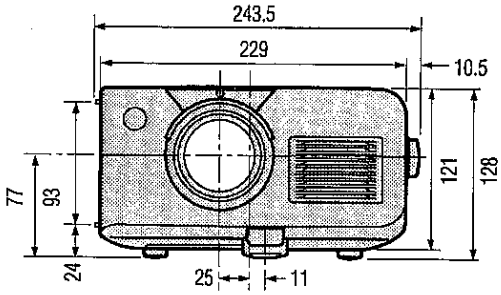
Top View



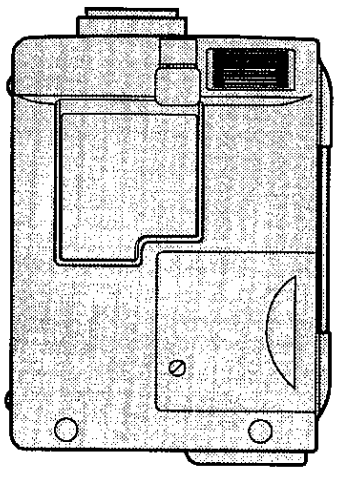


Side View





Front View



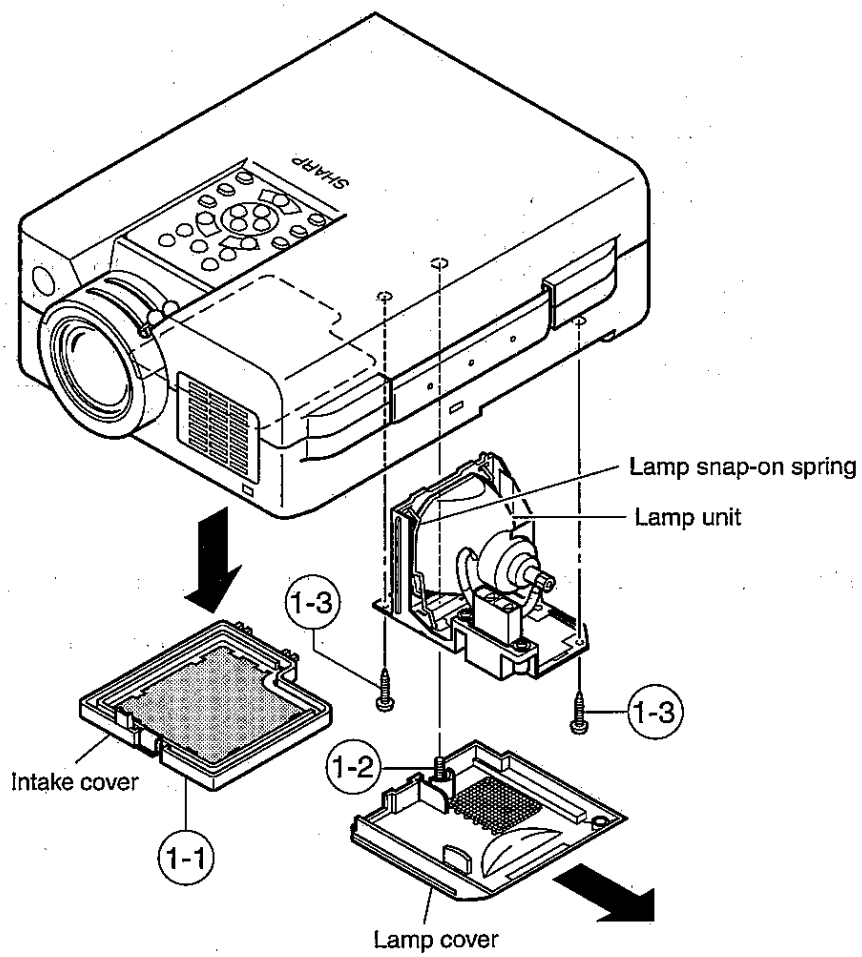
Bottom View

Units: mm

REMOVING OF MAJOR PARTS

1. Removing the Intake cover and lamp unit

1-1. Detach the Intake cover.
1-2. Loosen the lamp cover screw and draw out the lamp cover in the direction of arrow (toward yourself).
1-3. Remove the two lamp unit lock screws. Detach the lamp unit.

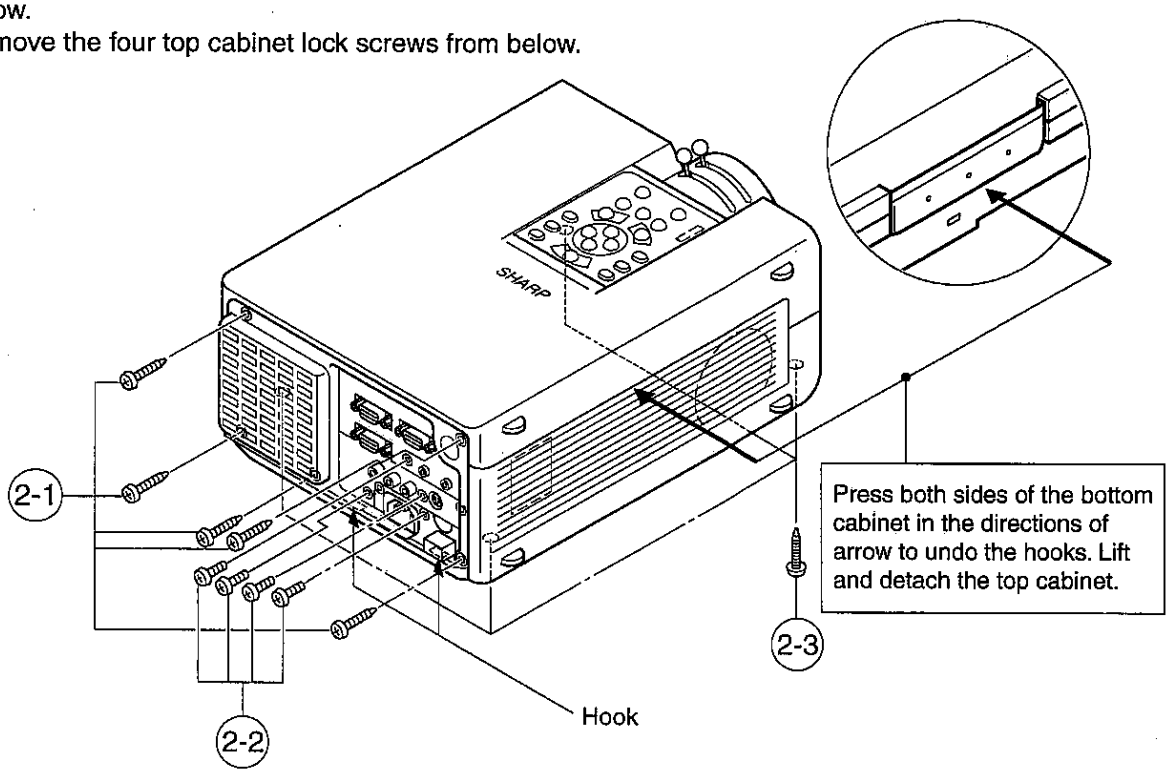


Note:

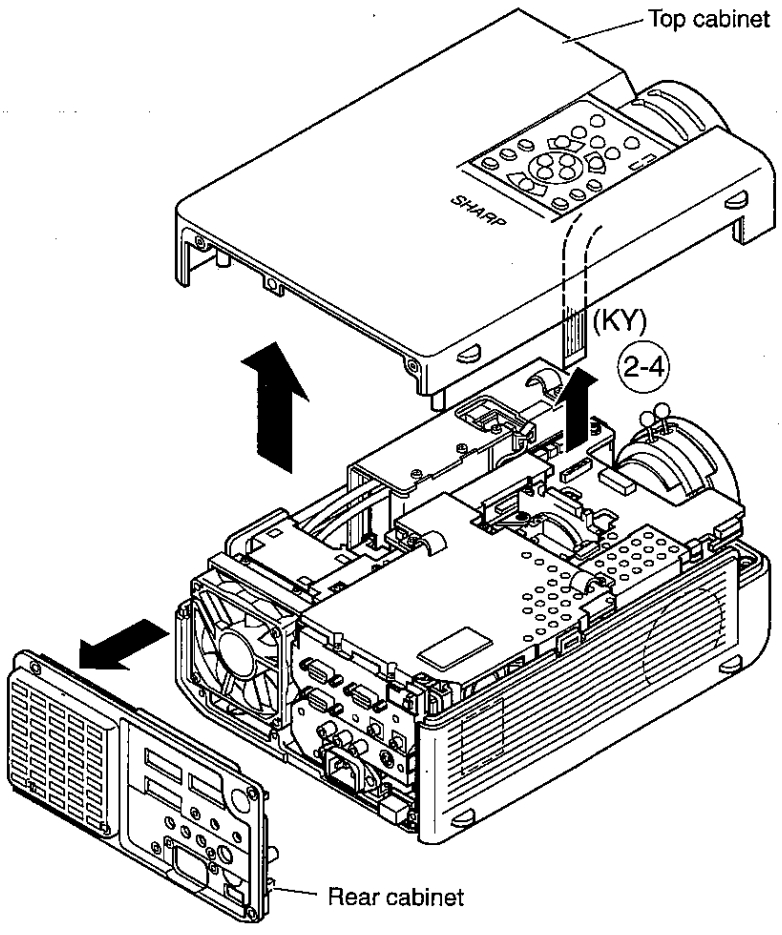
When replacing the lamp, make sure that there is a clearance of over 8mm between the terminal and the lamp snap-on spring (and other metallic parts).

2. Removing the top and rear cabinets

2-1. Remove the five rear cabinet lock screws.
2-2. Remove the four terminal board lock screws off the rear cabinet. Unhook and detach the rear cabinet from below.
2-3. Remove the four top cabinet lock screws from below.

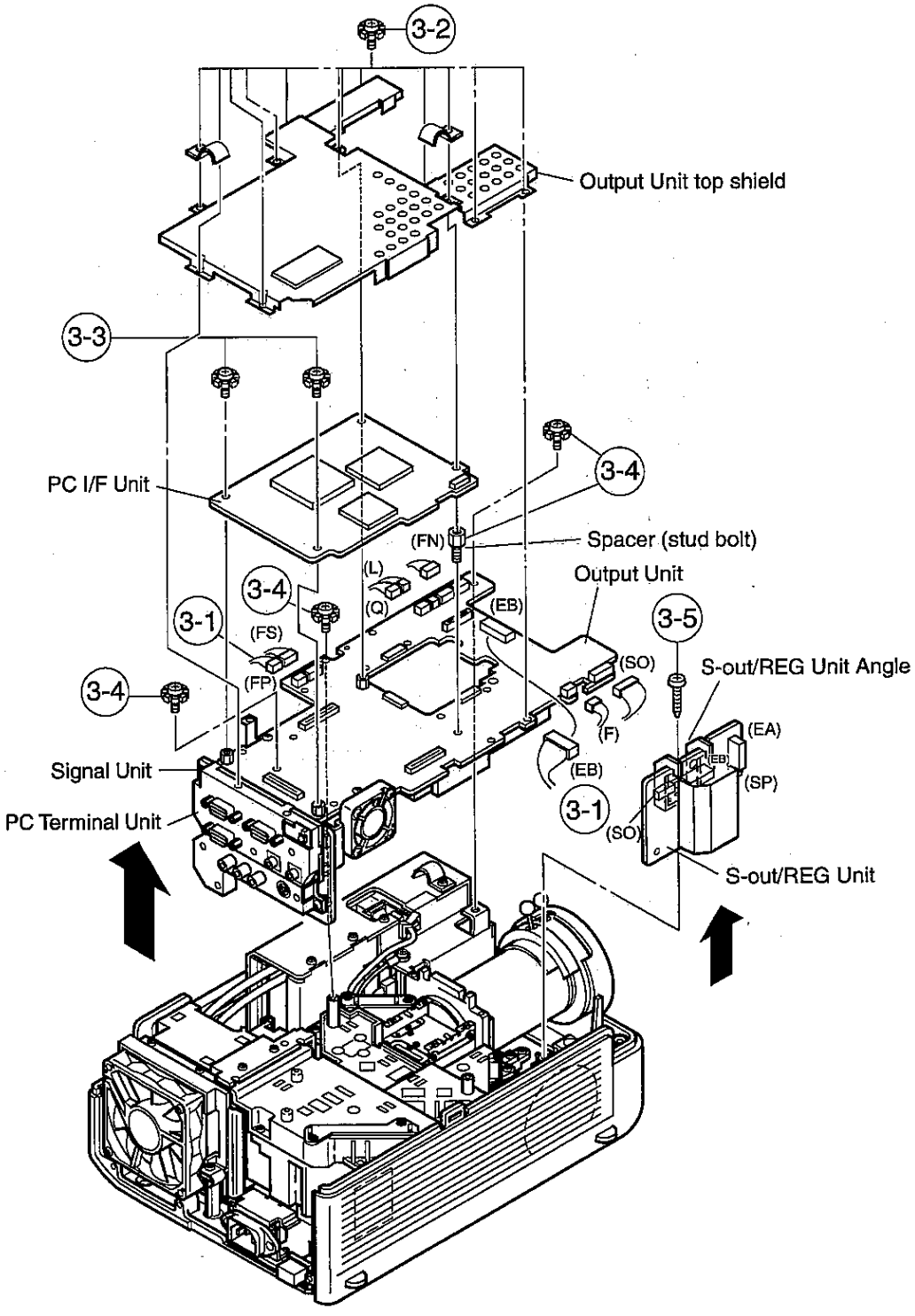

SHARP
2-1
2-2
2-3
Hook
Press both sides of the bottom cabinet in the directions of arrow to undo the hooks. Lift and detach the top cabinet.

2-4. Slowly lift the top cabinet and disconnect the operation key unit connector (KY). Then take away the top cabinet.



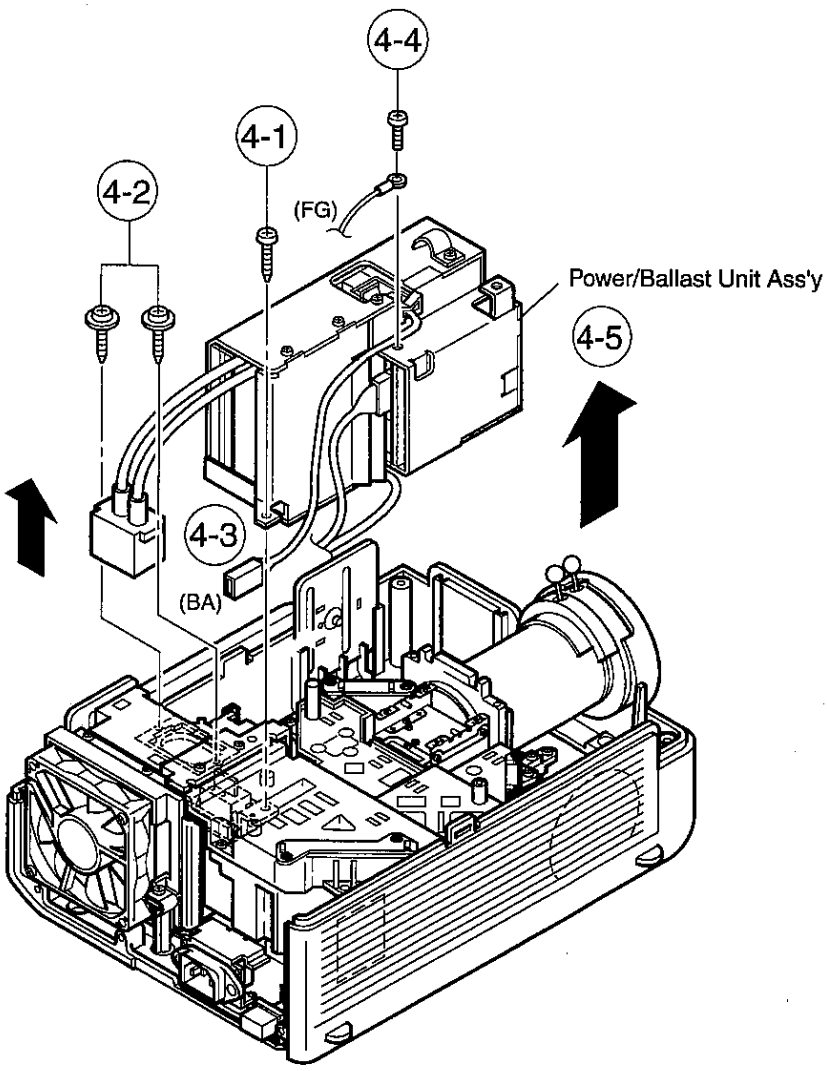
3. Removing the PWB units

3-1. Disconnect the connectors.
3-2. Remove the twelve screws and detach the output Unit top shield.
3-3. Remove the two screws and detach the PC I/F Unit.
3-4. Remove the two screws and the spacer (stud bolt).Lift and detach the Unit assembly.
3-5. Remove the S-out/REG unit angle lock screw and take out the S-out/REG unit.



4. Removing the Power/Ballast unit assembly

4-1. Remove the Power/Ballast unit assembly lock screw.
4-2. Remove the two lamp socket holder lock screws and take out the holder.
4-3. Disconnect the connector (BA) from the ballast unit.
4-4. Remove the (FG) lead lock screw.
4-5. Lift the Power/Ballast unit assembly off the position.

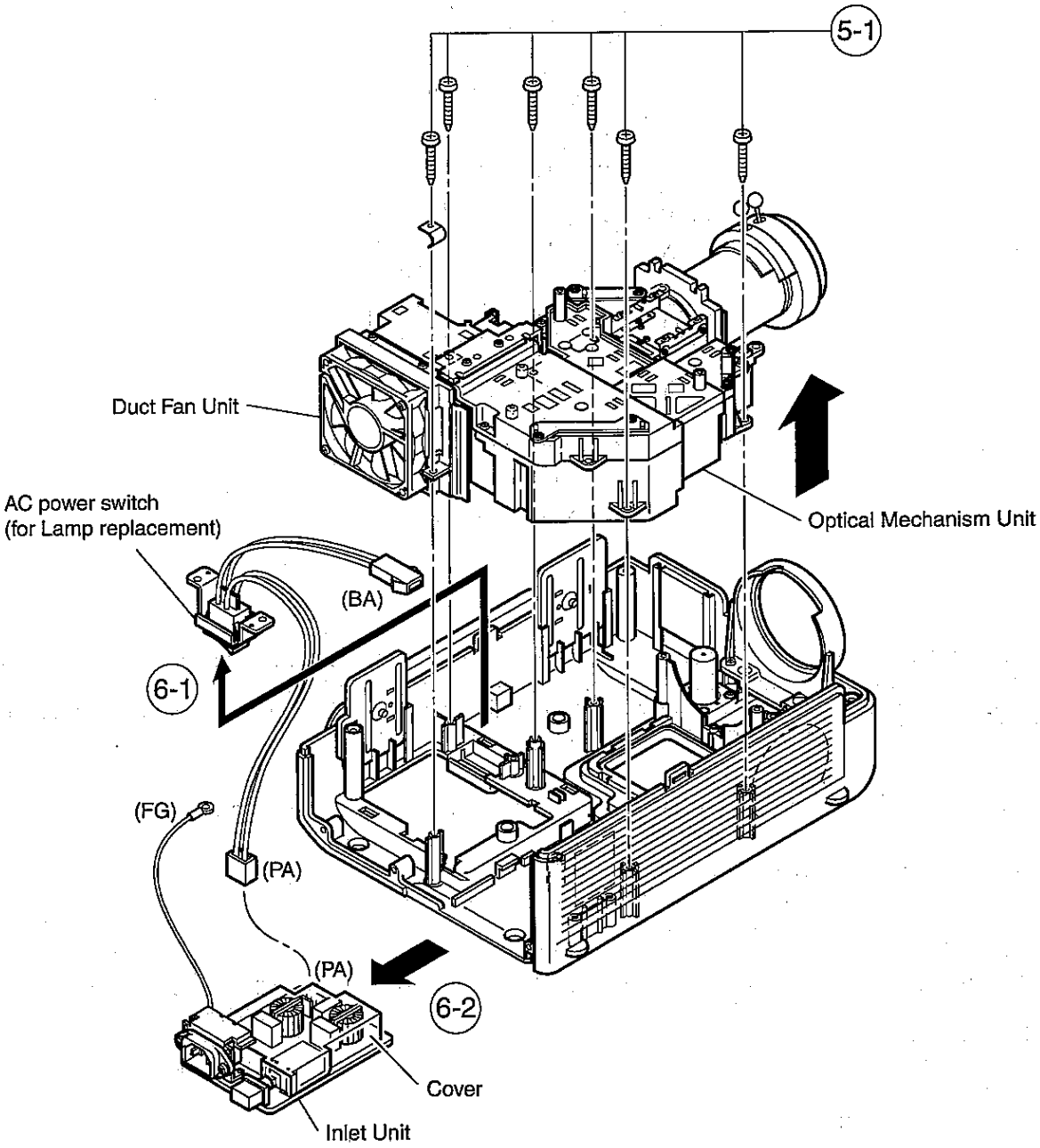


5. Removing the optical mechanism unit

5-1. Remove the six optical mechanism unit lock screws. Lift the unit off the position.

6. Removing the ballast unit and inlet unit

6-1. Disconnect the connector (PA) from the inlet unit. Take out the AC power switch.
6-2. Pull the inlet unit toward yourself off the position.
Note: Before installing the lamp cover, make sure the AC power switch is at the "◯" (OFF) position.

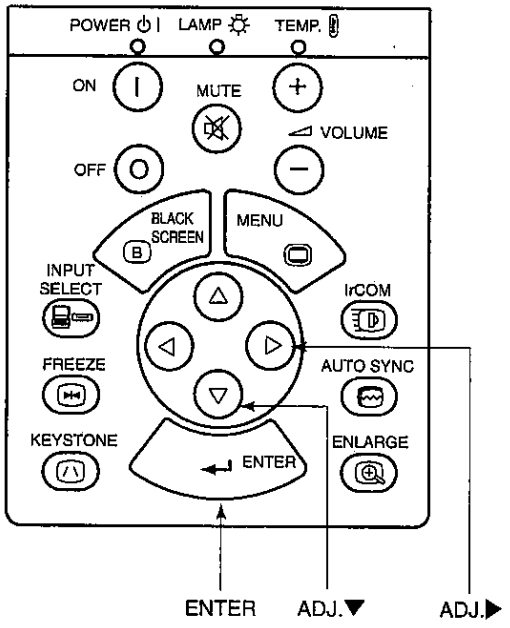


RESETTING THE TOTAL LAMP TIMER

When the lamp has been replaced, reset the total lamp timer in the following steps.

Resetting procedure

1. While holding down the "ENTER", "ADJ.▼" and "ADJ.▶" keys on the set at the same time, turn on the main power switch (located side the AC inlet).
2. Now the total lamp timer is reset to zero. "000H" appears on the screen.



Lamp

The lamp in this projector operates for approximately 1,500 cumulative hours, depending on the usage environment. It is recommended that the lamp be replaced after 1,400 cumulative hours of use or when you notice a significant deterioration of the picture and colour quality. At this point, take the projector to your nearest Sharp Authorised LCD Projector Dealer or Service Centre to have the lamp replaced.

⚠ CAUTION

- Intense light hazard. Do not attempt to look into the aperture and lens while the projector is operating.

NOTE

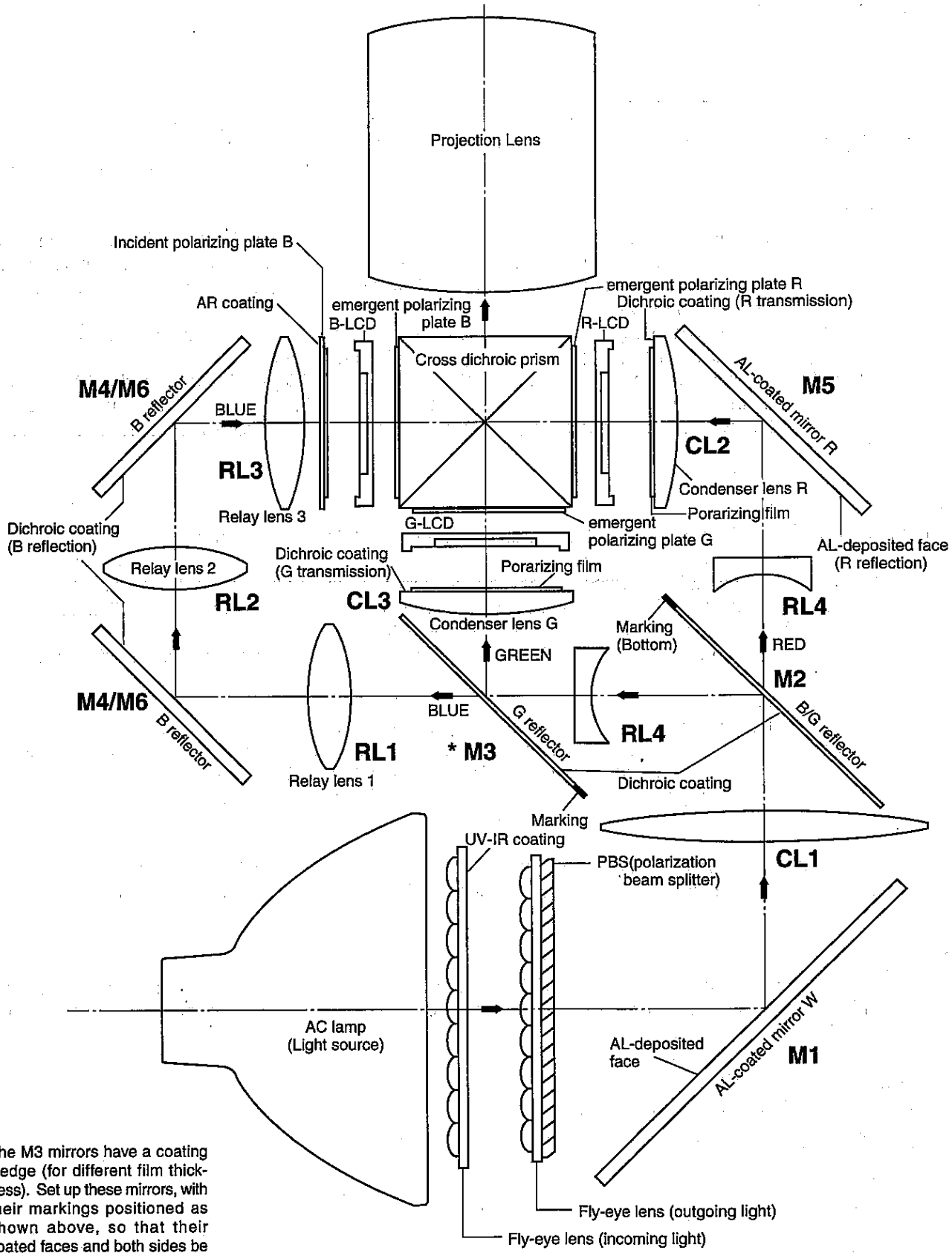
- The lamp usage time can be checked with the On-screen Display.
- As the usage environment can vary significantly, the projector lamp may not operate for 1,500 hours.

Condition	Problem	Possible Solution
The LAMP REPLACEMENT indicator lights up red, and "LAMP" and "■" will flash in yellow in the lower-left corner of the picture.	• Lamp has been used for over 1,400 hours.	• Take the projector to your nearest Sharp Authorised LCD Projector Dealer or Service Centre to have the lamp replaced.
A significant deterioration of the picture and colour quality occurs.		
The power will automatically turn off and the projector will enter standby mode.	• Lamp has been used for over 1,500 hours.	
"LAMP" and "■" will flash in red in the lower-left corner of the picture, and the power will turn off.		

THE OPTICAL UNIT OUTLINE

Layout of the optical system

Note: Layout for positioning the optical system.



* The M3 mirrors have a coating wedge (for different film thickness). Set up these mirrors, with their markings positioned as shown above, so that their coated faces and both sides be in the correct directions.

CONVERGENCE AND FOCUS ADJUSTMENT

- **Start the convergence and focus adjustments with the top panel removed but the power on. Use the remote control to adjust the image. Take the following procedures.**

1. Focusing the projection lens

(A) Replacing all the 3 LCD panels

1. Before replacing all the 3 LCD panels, project an image on the screen and bring it into focus.
2. Replace the LCD panels with new ones. But until the focus has been completely readjusted, be careful not to change the projection distance between the set and the screen, nor to move the projection lens focus and zoom rings.

Note:

If the focus is readjusted with a different positional relation, the relation between the projection distance and the screen size is affected. In other words, a short-distance image (40 WIDE for example) may get out of the focus range, or a long-distance image (300 WIDE for example) may come out of the focus.

(B) Replacing 1 or 2 of the 3 LCD panels

1. In adjusting the focus after replacement of one or two LCD panels, project an image on the screen and turn the projection lens focus ring to get the non-replaced LCD panel into focus.
2. But until the focus has been completely adjusted for the new LCD panels, be careful not to change the projection distance between the set and the screen, nor to move the projection lens focus and zoom rings.
3. If the projection distance has been changed or the projection lens readjusted, repeat the above steps 1 and 2.

2. Focus adjustment

(A) Adjusting the G-LCD panel(Make this adjustment on the white-only screen.)

1. Adjustment in θX and Z directions .
   Loosen the lock screw "a" and insert an eccentric screwdriver into the notch and hole "a". Turn the screwdriver until the top, center and bottom on the screen get into focus. In adjusting this top-to-bottom focus, tighten the lock screws "b" and "c" to fix the θY direction adjustment.
   First get the right and left halves in balance. Then improve the accuracy while making the adjustment 2 below.
2. Adjustment in θY direction
   Temporarily tighten the lock screw "a" and loosen the lock screws "b" and "c". Insert the eccentric screwdriver into the notch and hole "c" for adjusting in the θY direction on the top of the screen. Insert the eccentric screwdriver into the notch and hole "b" for adjusting in the θY direction on the bottom of the screen.
3. Repeat the above steps 1 and 2 to finely adjust the focus. Finally tighten up all the lock screws.

Notes :

① Carefully proceed with the focus adjustment because the adjusting directions are correlated.
② In adjusting the convergence and focus, do not move the projection lens zoom and focus rings until the end of all the adjustments.

(B) Adjusting the B-LCD panel (Do the same for the R-LCD panel.)

1. Take the same procedure as for the G-LCD panel focus adjustment. Note that the adjustment range is wider in the Z direction. If the convergence is quite different between the B-LCD and G-LCD panels, roughly adjust the convergence first and then the focus.

3. Convergence adjustment

- Use a crosshatch pattern signal for this adjustment.
  Make the adjustment just for the G-LCD and the relevant colour.

1. Loosen the convergence lock screw "d".
2. Adjustment in Y and θZ directions
   Put a hex wrench in the Y and θZ direction adjustment zone.
3. Adjustment in X direction
   Put an eccentric cam adjusting wrench in the X direction adjustment zone.

4. With the G-LCD panel's screen center as refernce, adjust the R-LCD and B-LCD panels.
5. Finally tighten up the convergence lock screw "d".

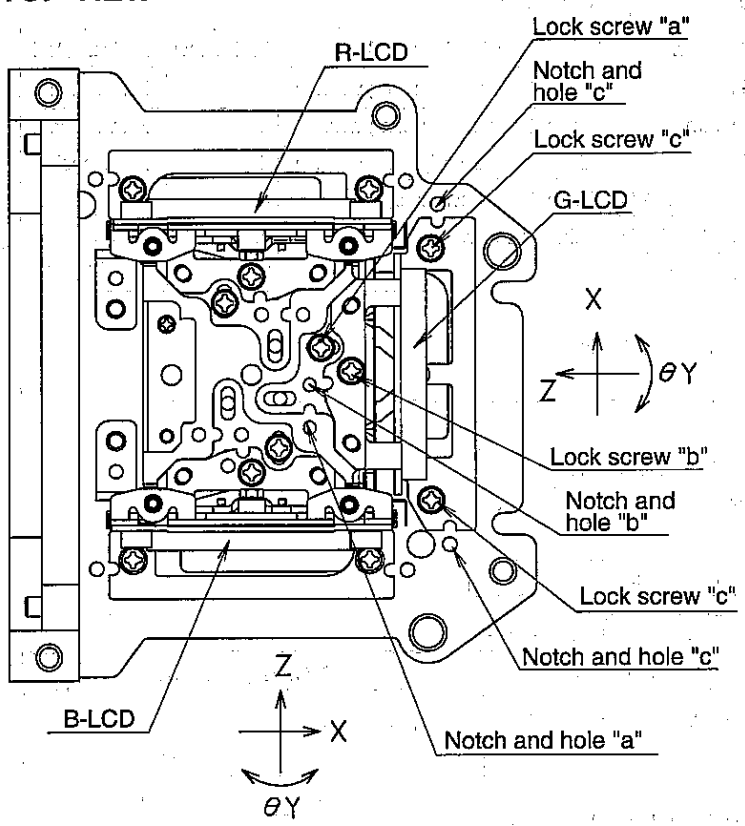
Notes :

① The eccentric cam is used for convergence adjustment.
This means that the cam's turning and the linear movement are not always uniform.

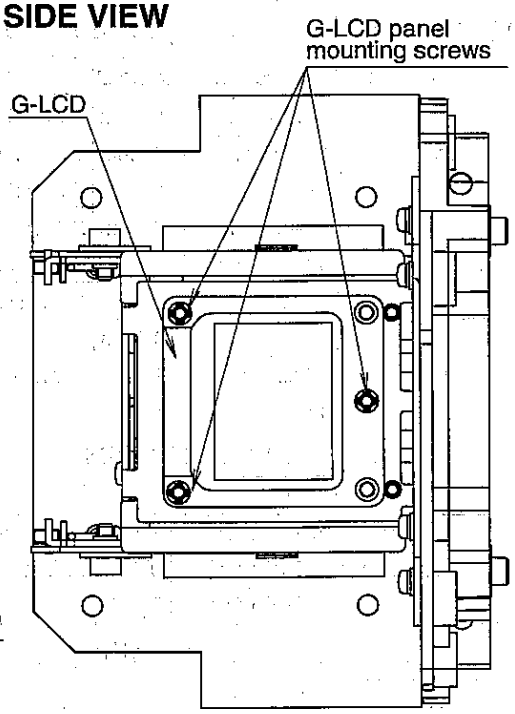
② This model is not equipped with the LCD image adjustment mechanism. This is because the cross-dichroic prism is used for image formation. When the LCD panels all get into best focus, the images are almost completely converged.

Convergence and Focus Adjustments Mechanism

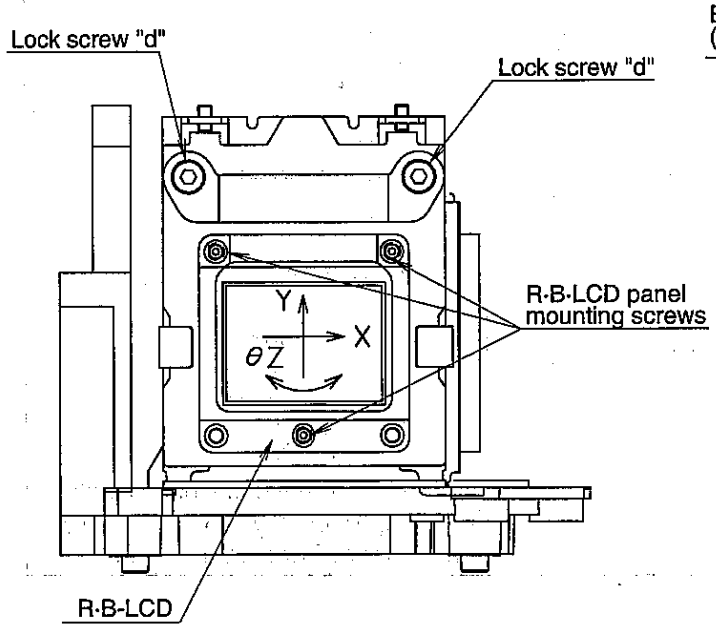
TOP VIEW



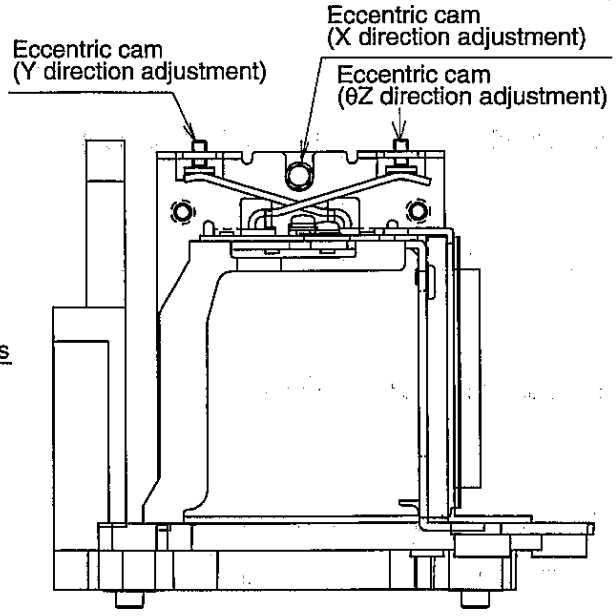
SIDE VIEW



SIDE VIEW (from inside)



SIDE VIEW (from outside)



Convergence and Focus Adjustments at a Glance

Adjustment directions

Adjustment	Direction	Definition	Direction of LCD panel
Convergence	X direction		LCD right and left
	Y direction		LCD top and bottom
	θZ direction	Rotation around Z axis	LCD turning axis
Focus	Z direction		LCD optical axis
	θX direction	Rotation around X axis	LCD top-to-bottom flapping
	θY direction	Rotation around Y axis	LCD right-to-left flapping

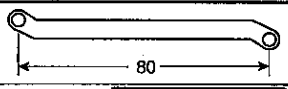
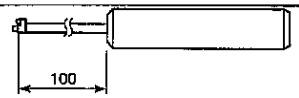
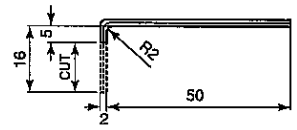
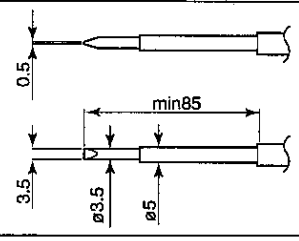
Convergence and Focus Adjustment for the Optical Mechanism

Colour	Adjustment	Direction	Movement	Position	Adjusting tool	Lock screw	Tightening tool
R/B colours	Convergence	X direction	±0.8mm	Eccentric cam	Eccentric cam adjusting wrench	d	Hex wrench
		Y direction	±0.8mm	Eccentric cam	Eccentric cam adjusting wrench	d	Hex wrench
		θZ direction	±1°	Eccentric cam	Eccentric cam adjusting wrench	d	Hex wrench
	Focus	Z direction	±0.8mm	Notch and hole "a" & "c"	Eccentric screwdriver, Bladed screwdriver	a, c	Phillips screwdriver, *Hex wrench
		θX direction	±1°	Notch and hole "a" & "c"		a, c	
		θY direction	±1°	Notch and hole "b" & "c"		b, c	
G colour	Focus	Z direction	±0.2mm	Same as for R and B colours			
		θX direction	±1°				
		θY direction	±1°				

Focus Adjustments the Other Way

Lock screw	Position	Related direction
a	Notch and hole "a"	Z and θX directions
b	Notch and hole "b"	θY direction
c	Notch and hole "c"	Z, θX and θY directions

Convergence and Focus Adjusting and Tightening Tools

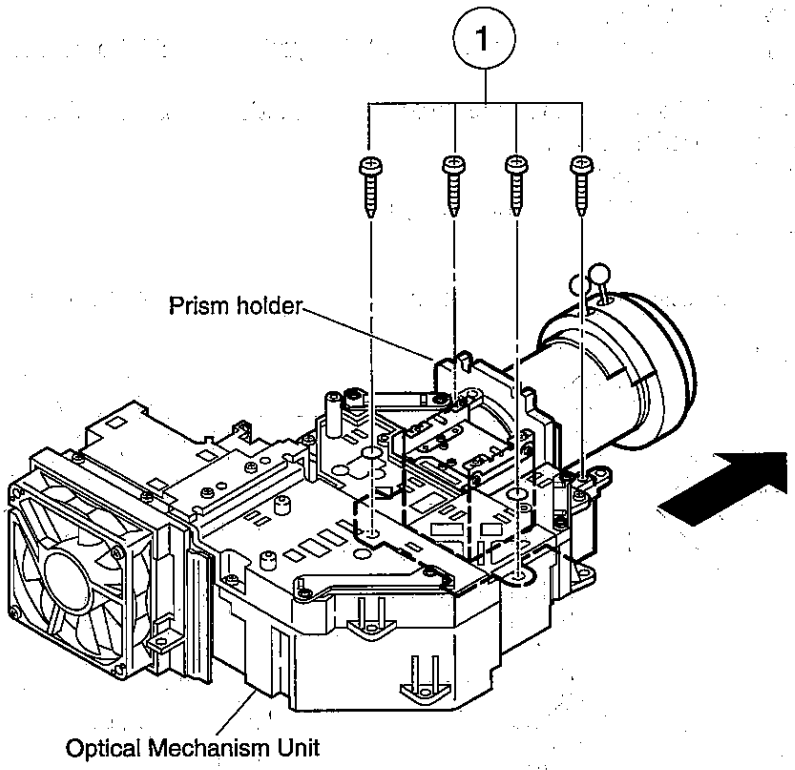
Tool	Specific or General	Tool code	Configuration
Eccentric cam adjusting wrench	Specific	9DASPN-XGNV1U	
Eccentric screwdriver	Specific	9DADRiVER-NV4U	
Hex wrench	General (redesigned)	9EQLNC-XGNV1U	
		9EQLNC-XGNV4U	
Bladed screwdriver	General	9EQDRiVER-NV1B	
Phillips screwdriver	General	—	For M2.6 pan-head machine screw
*Hex wrench	General	—	1.27mm, preferably use a 70 mm or longer screwdriver (with a handle).

Replacing the LCD panels

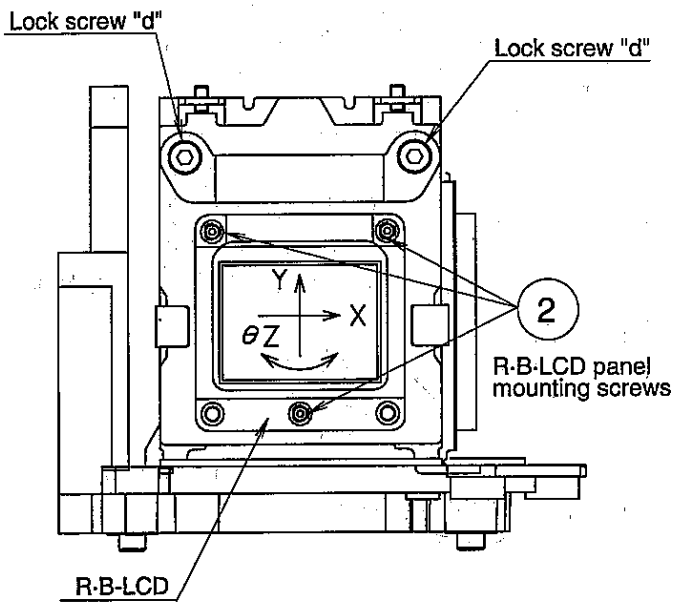
Detach the top panel and the optical mechanism unit in advance.

(1) Remove the four prism holder lock screws. Detach the prism holder from the optical mechanism unit.
(2) Remove the LCD panel lock screws (three each for the R-, G- and B-LCD panels). Detach the LCD panels from the prism holder.
(3) Mount a new LCD panel in the reverse order of the above steps (1) and (2).

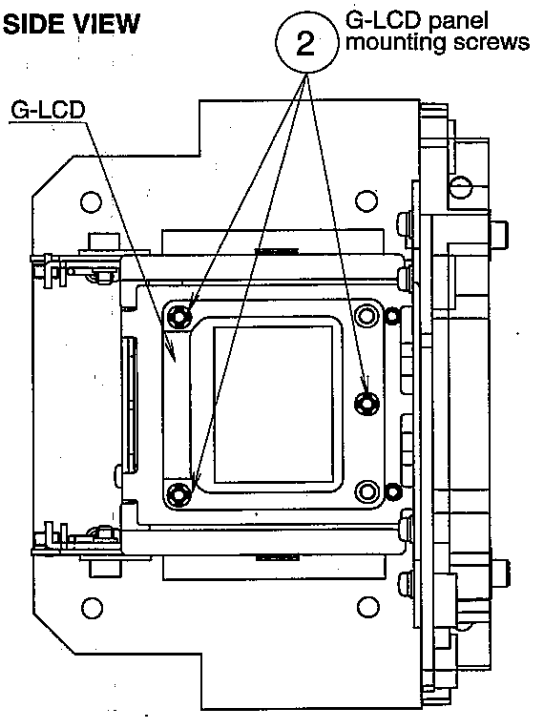
* Readjust the convergence and focus. Note that the G-LCD panel needs no convergence adjustment and has a small adjustment range in the Z direction.



SIDE VIEW (from inside)



SIDE VIEW

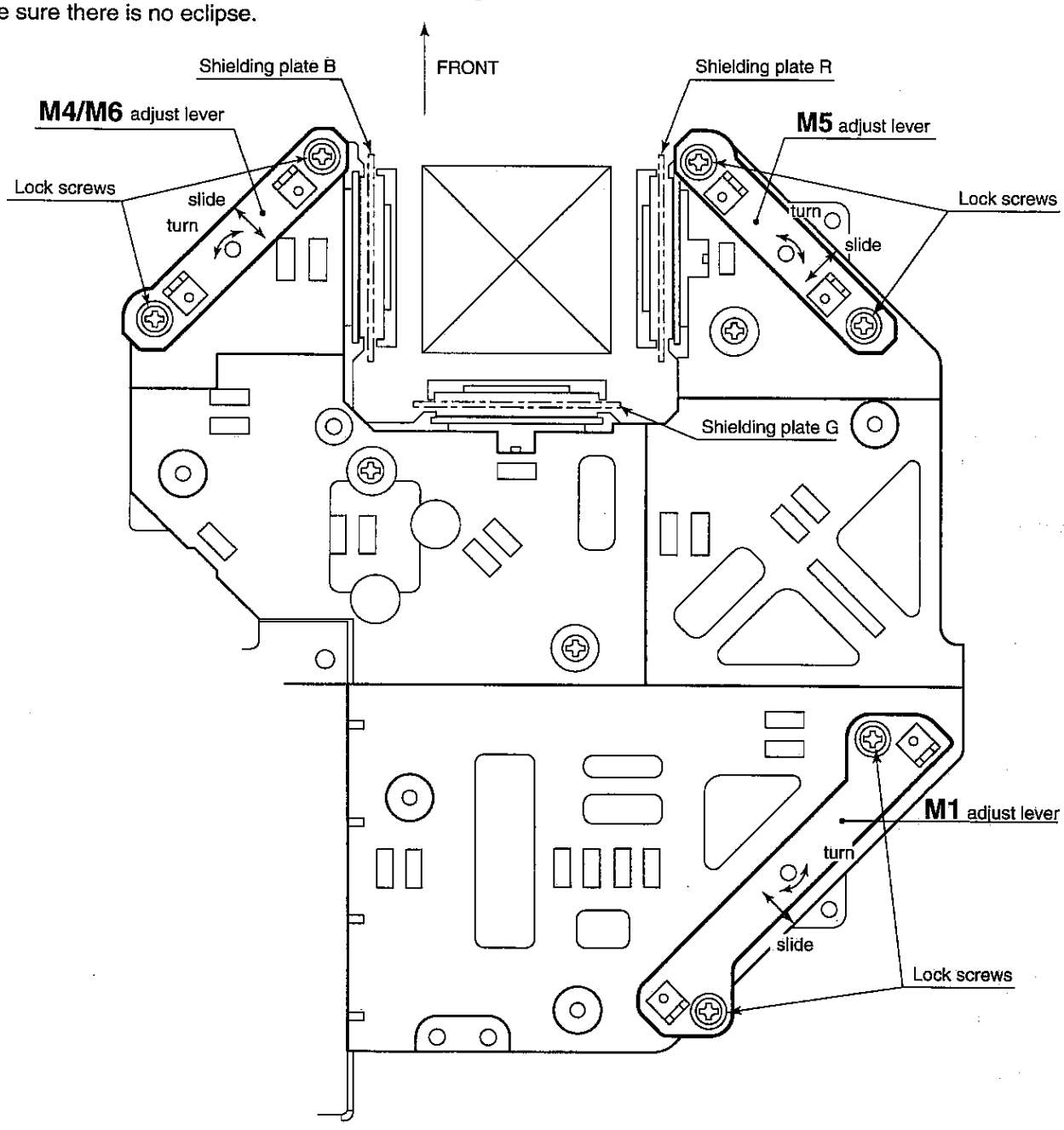


Adjusting the optical axis of the mirrors (M1, M5 and M4/M6)

The optical axis must be readjusted if an eclipse happens with the R. G or B mirrors. Generally speaking, this adjustment is needed when any of the internal optical components has been replaced.

Adjustment procedure required when any of the panels has been replaced or the convergence has been adjusted

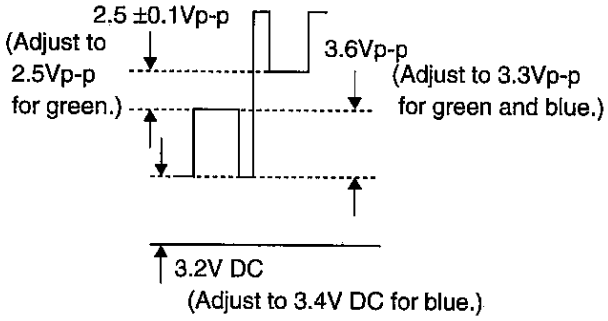
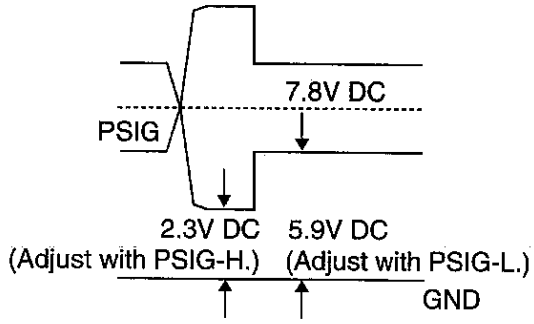
(1) Disconnect the flat cables of all the LCD panels.
(2) Let the lamp light up.
(3) To adjust the G mirror, shield the R and B mirrors with shielding plates (You can use a business card or the like to block the light).
(4) Loosen the lock screw of the M1 adjust lever.
(5) Looking at the G image on the screen, turn or slide the M1 adjust lever until the eclipse on the screen disappears. Tighten up the screw.
(6) To adjust the R mirror, shield the G and B mirrors and adjust the M5 adjust lever. For the B mirror, shield the R and G mirrors and adjust the M6 adjust lever.
(Take the same steps 4 and 5 above.)
(7) Remove all the shielding plates to have a white image.
Make sure there is no eclipse.

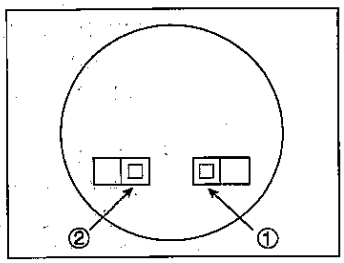
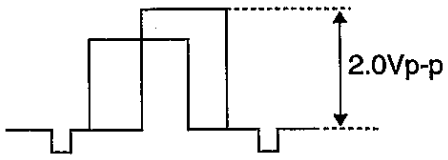


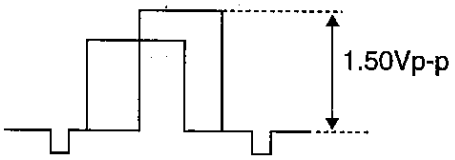
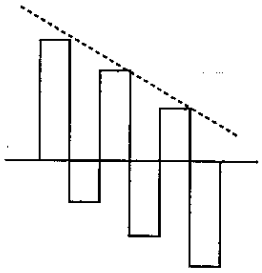
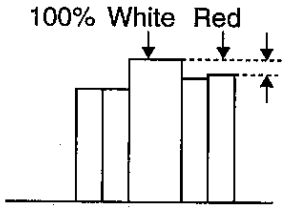
ELECTRICAL ADJUSTMENT

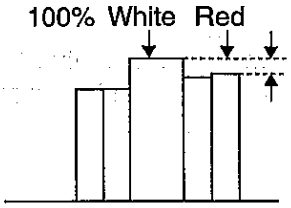
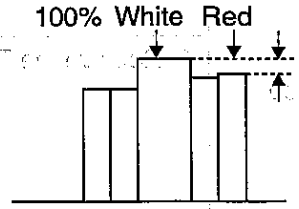
Hook up a signal generator, or a DOSV or Mac personal computer to the projector in order to feed the signals specified in the Adjusting conditions.

No.	Adjusting point	Adjusting conditions	Adjusting procedure
1	**EEPROM initialization**	1. Turn on the power (make sure the lamp lights up) and warm up the unit for 15 minutes.	• Make the following settings: Press S5001 to call up the process mode and execute S2 in the SSS menu. Now the system, with the PC board not included, is initialized. Do not execute S1 because otherwise the PC board will be initialized. To adjust the PC board, follow the instruction in "Adjusting the PC Interface". (See page 29)
2	**3.3V power supply adjustment**	1. Turn on the power. 2. Connect the digital voltmeter to TP1446.	• Adjust R1649 so that the voltmeter should read 3.325 V ±100 mV.
3	**2.5V power supply adjustment**	1. Turn on the power. 2. Connect the digital voltmeter to TP1447.	• Adjust R1652 so that the voltmeter should read 2.625 V ±50 mV.
4	**R drive**	1. Make the following choice. Group : A/D Subject : GAIN Make sure the GAIN value is 163. 2. Feed the 100% red-only signal. Make the following choice. Group : A/D Subject : R-D	• Using the control switches or the remote controller buttons, adjust the data so that the signal becomes bit-less (noise).
5	**B drive**	1. Feed the 100% blue-only signal. Make the following choice. Group : A/D Subject : B-D	• Using the control switches or the remote controller buttons, adjust the data so that the signal becomes bit-less (noise).
6	**G drive**	1. Feed the 100% green-only signal. Make the following choice. Group : A/D Subject : G-D	• Using the control switches or the remote controller buttons, adjust the data so that the signal becomes bit-less (noise).

No.	Adjusting point	Adjusting conditions	Adjusting procedure
7	**RGB 1 system black level signal amplitude (odd-numbered)**	1. Make the following choice: Group : OUTPUT 1 Subject : R1-BLK R1-GAIN For green, choose the subjects G1-BLK and G1-GAIN. For blue, choose the subjects B1-BLK and B1-GAIN. 2. Connect the oscilloscope to TP1101 for red. TP1201 for green TP1301 for blue	• Choose the subject R1-GAIN and adjust the signal amplitude to 3.6 ±0.1 Vp-p using the control switches or the remote controller buttons. • Next,choose the subject R1-BLK and adjust the black peak level to 3.2 ±0.1V DC.  • Adjust the signal's amplitude and maximum black level to 3.3 ± 0.1Vp-p and 3.4 ± 0.1V DC, respectively, for green and blue.
8	**P SIGNAL**	1. Connect the oscilloscope to TP1102 for red. TP1202 for green. TP1302 for blue. 2. Make the following choice: Group : OUTPUT 2 Subject : PSIG-H : PSIG-L	• Adjust the PSIG waveform to the one shown below.  • For the green and blue colours, make sure their waveforms are similar to that of the red colour.
9	**Sample-and-hold pulse phase** **RCK-PHASE** **GCK-PHASE** **BCK-PHASE**	1. Feed the XGA mode 75-Hz black signal. 2. Make the following choice: Group : OUTPUT 3 Subject : SH-PHASE (Have the standard level at 8.) Fix the RCK-, GCK- and BCK-PHASE settings all to 8.	• Using the control switches or the remote controller buttons, make sure that the "OUTPUT 3" characters are not blurry and there is no ghost image. If such blur or ghost occurs, finely adjust the setting in the range of 7~9.

No.	Adjusting point	Adjusting conditions	Adjusting procedure
10	**RGB counter-voltage adjustment**	1. Feed the black-and-red (25%) stripe signal (XGA). 2. Make the following choice: Group : OUTPUT 3 Subject : RC (R)	• Using the control switches or the remote controller buttons, adjust the data in order to minimize the flicker. • Make the same adjustment for BC (B) and GC (G). • See if the image is equally adjusted at the center and both sides of the screen. If not, readjust the setting to have the image equal at right and left.
11	**RGB gradation regeneration adjustment**	1. Feed the green-only SMPTE pattern signal.(XGA) Group : OUTPUT 1 Subject : G1-GAIN	• Adjust the G-GAIN data until the gradation of the portion ① (95% and 100% white) shown below can be slightly recognized. Make sure also that the gradation of the portion ② (0% and 5% black) is visible. 
12	**RGB white balance**	1. Feed the 32-step gray scale signal (XGA). Group : OUTPUT 1 Subject : R1-BLK (R) B1-BLK (B)	• Choose the subjects R1-BLK and B1-BLK and adjust the black balance of the gradation.
13	**Horizontal center**	1. Feed the NTSC mono-scope pattern signal. 2. Group : VIDEO 2 Subject : N358-DLY (6) N443-DLY (2) PAL-DLY (2) SECAM-DLY (2) Make sure the settings are as above. 3. Group : VIDEO 1 Subject : NTSC-H	• Using the control switches or the remote controller buttons, adjust the data to have the same overscan.
14	**Video picture adjustment**	1. Feed the split colour bar signal. Group : VIDEO 1 Subject : PICTURE 2. Connect the oscilloscope between pin (2) of P801 and GND.	• Using the control switches or the remote controller buttons, adjust the black-to-white (100%) level difference to 2.0 ±0.02 Vp-p. 

No.	Adjusting point	Adjusting conditions	Adjusting procedure
15	**Video AGC**	1. Feed the split colour bar signal. Group : VIDEO 1 Subject : AGC 2. Connect the oscilloscope between pin (2) of P801 and GND.	• Using the control switches or the remote controller buttons, adjust the black-to-white (100%) level difference to 1.50 ±0.02 Vp-p. 
16	**Video brightness adjustment**	1. Feed the baseband (split colour bar) signal. (The ON-AIR signal is not accepted because of its too much noise.) Group : VIDEO 1 Subject : BRIGHT 2. Press the control switch or the remote control's mute button (to set the gamma correction to the process setting).	• Using the control switches or the remote controller buttons, adjust the setting until the black signal becomes bit-less and set to -2 point of value.
17	**Tint**	1. Feed the split colour bar signal. Group : VIDEO 1 Subject : TINT 2. Connect the oscilloscope to pin (4) of P801.	• Using the control switches or the remote controller buttons, adjust the data to have the -(B-Y) waveform downhill straight. 
18	**NTSC colour saturation level**	1. Feed the split colour bar signal. Group : VIDEO 1 Subject : N-COLOR 2. Connect the oscilloscope to pin (1) of P801.	• Using the control switches or the remote controller buttons, adjust the difference between the 100% white portion and the red portion to 0.10 ±0.02 Vp-p. (same as 100% white) 

No.	Adjusting point	Adjusting conditions	Adjusting procedure
19	**PAL colour saturation level**	1. Feed the PAL colour bar signal. Group : VIDEO 1 Subject : P-COLOR 2. Connect the oscilloscope to pin (1) of P801.	• Using the control switches or the remote controller buttons, adjust the difference between the 100% white portion and the red portion to 0.20 ±0.02 Vp-p. 
20	**SECAM colour saturation level**	1. Feed the SECAM colour bar signal. Group : VIDEO 1 Subject : S-COLOR 2. Connect the oscilloscope to pin (1) of P801.	• Using the control switches or the remote controller buttons, adjust the data to have a level difference of 0.25 ±0.02 Vp-p between the 100% white portion and the red portion. 
21	**Video white balance**	1. Feed the NTSC mono-scope pattern signal Group : VIDEO 2 Subject : R1-GAIN B1-GAIN	• Using the control switches or the remote controller buttons, adjust so that the entire screen looks evenly colourless.
22	**Colour irregularity correction position**	1. Feed the gray-only RGB colour signal. 2. Find the colour irregularity position on the screen. 3. Group : NOKO Subject : NOKO-RL 4. Group : NOKO Subject : NOKO-LH	• If the colour is irregular, adjust the NOKO-RL data. Set it to R for the right-hand colour irregularity and to L for the left-hand one. • When there is no colour irregularity, turn off the saw-tooth waveform correction on the NOKO-LH data.
23	**Colour irregularity correction gain (in case of colourirregularity)**	1. Feed the gray-only RGB colour signal.	• Adjust R4215 to minimize the right-hand and left-hand colour irregularity.

No.	Adjusting point	Adjusting conditions	Adjusting procedure
24	**Colour system performance check**	1. Receive the colour bar signal.	• In the process mode and select L1. Check the colour and tint.
25	**Video system performance check**	1. Receive the monoscope pattern signal.	• In the process mode and select L2. Check the picture, brightness and sharpness.
26	**Audio system performance check**		• In the process mode nad select L3. Check the bass, treble and balance.
27	**RGB performance check**	1. Receive the RGB signal.	• In the process mode and select L4. Check the picture, brightness, red, blue, clock, phase, horizontal position, and vertical position.
28	**Off-timer performance check**		• In the process mode and select OFF. Make sure that the off-timer starts with "5" (minutes), counts down each minute in 1 second, and turns off the set at "0".
29	**Thermistor performance check**	1. Heat the thermistor using a dryer.	• Make sure the "TEMP" is displayed.
30	**Automatic synchronization**	1. Receive the PHASE check pattern signal.	• Call the VGA/S-VGA/XGA/SXGA mode and make sure that the clock, phase, horizontal and vertical positions can be automatically adjusted.
31	**IrDA performance check**		• Make sure the IrDA signal can be received.
32	**Keystone correction performance check**		• Make sure the keystone correction functions well.
33	**Factory settings**		• Make the following settings. Process adjustment: S4 Remote controller setting: "Factory setting 4"

ADJUSTING THE PC BOARD (CPCi-0031CE04. PC I/F Unit)

1. Setting the oscilloscope

Set the range to DC 1 V/div and 5μ/div.

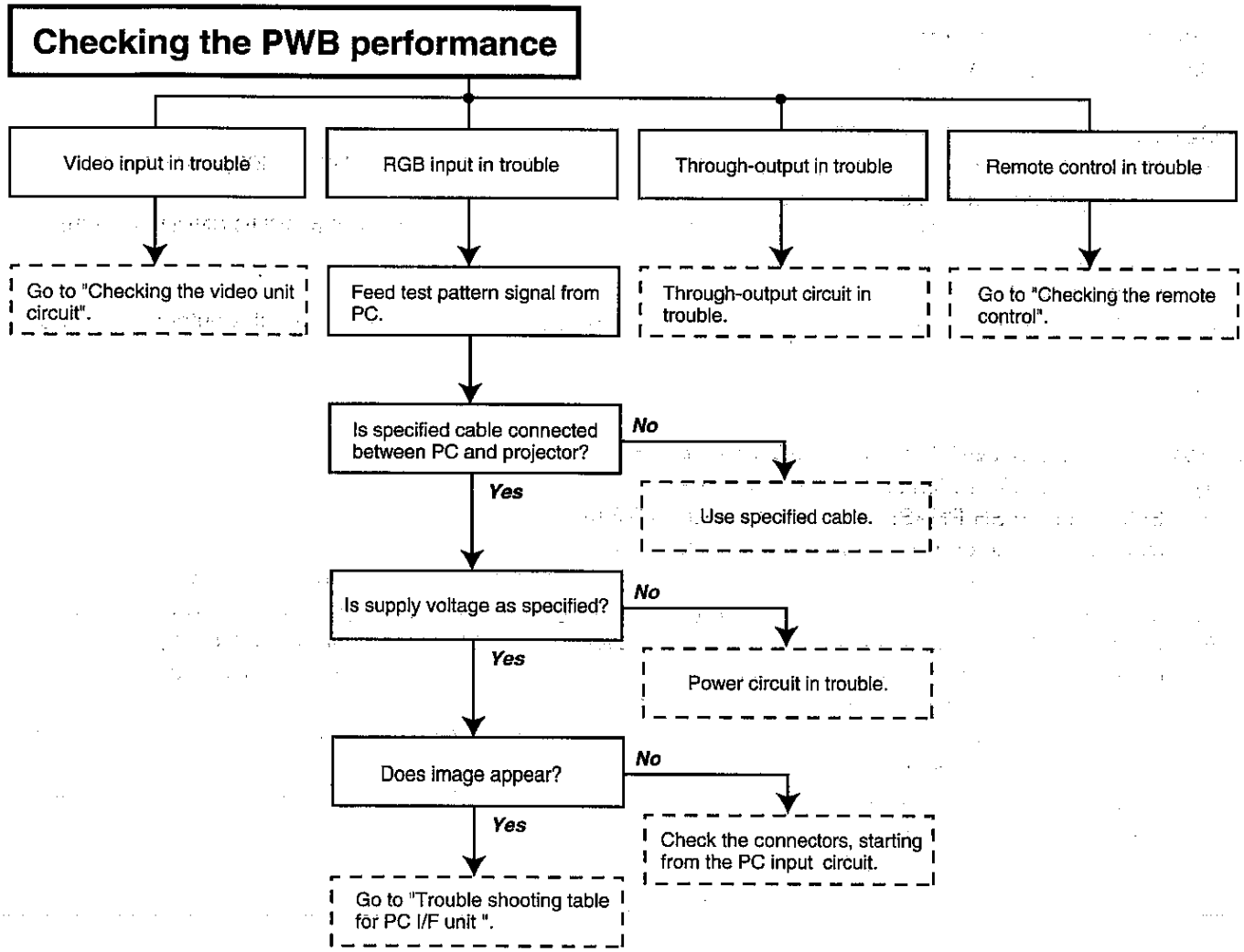
2. Connecting the PC interface

1) Connect the PC interface to the projector. Make surethe CON2 (P8404), CON3 (P8502) and CON4 (P8405)connectors are all tight in position.
2) Connect the cable between the computer's ANALOG OUTPUT terminal and the DSUB (INPUT1 on the projector)connector.
3) Set the projector's input selector to the RGB1position.
4) Set the signal generator to the XGA mode (1024 x 768, 60Hz, 32-tone scale). Keep the output amplitude at 700mVp-p.
5) Turn on the power.

3. Adjusting the levels and checking the tones

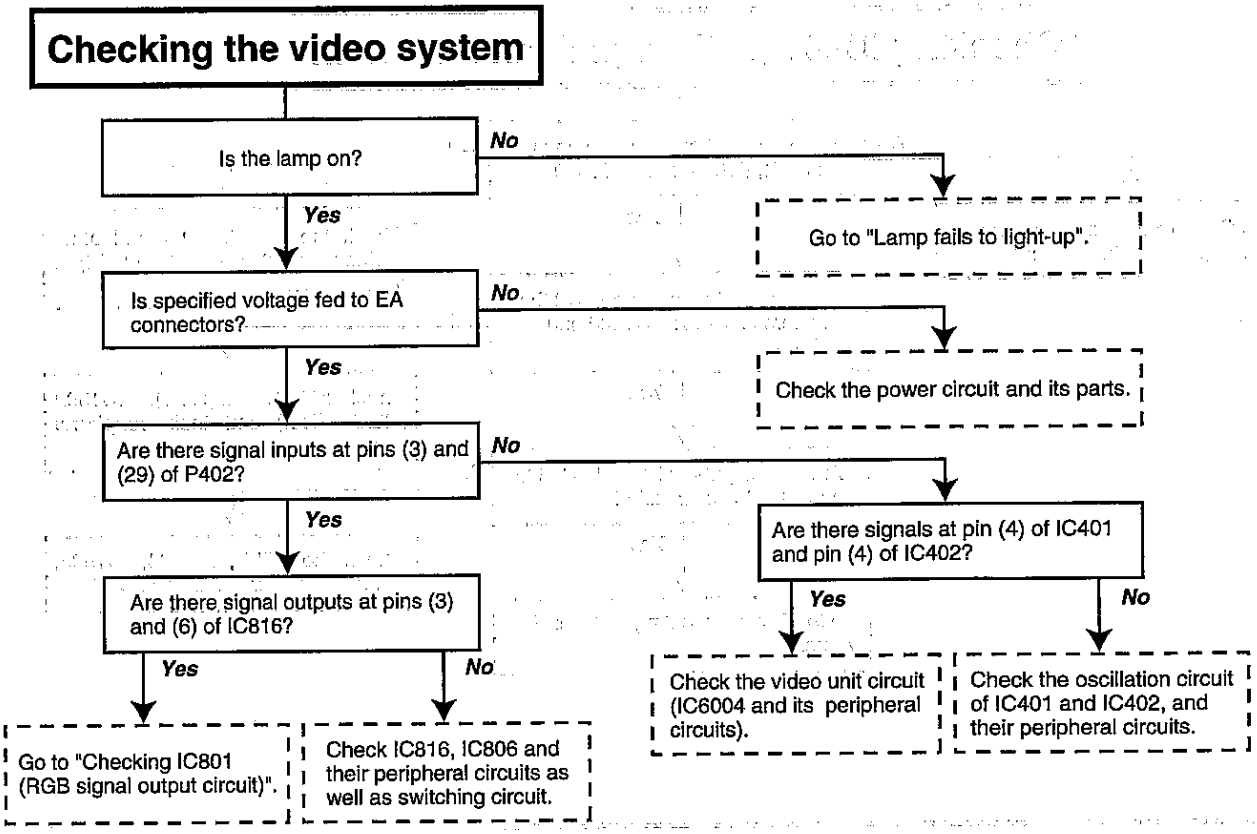
1) Press the S5001 switch to call up the process mode.
2) Enter 8 for the SH-PHASE setting on the OUTPUT3 menu.
   (Adjust to get the on-screen display characters clearand crisp.)
3) Using the BRIGHT setting on the OUTPUT1 menu, adjustthe black level at TP8002 to 1.9 V.
4) Using the ROS setting on the A/D menu, adjust thevoltage at TP8008 (or at pin (2) of IC8011) to 1.7 V.
5) Using the GOS setting on the A/D menu, adjust thevoltage at TP8009 (or at pin (2) of IC8010) to 1.7 V.
6) Using the BOS setting on the A/D menu, adjust thevoltage at TP8010 (or at pin (2) of IC8009) to 1.7 V.
7) Make sure the GAIN setting on the A/D menu is 163.
8) Using the B-D setting on the A/D menu, adjust the whitelevel at TP8001 to 3.6 V. Make sure also the tone scale(number of tones) is as specified.
9) Using the R-D setting on the A/D menu, adjust the whitelevel at TP8003 to 3.6 V. Make sure also the tone scale(number of tones) is as specified.
10) Using the G-D setting on the A/D menu, adjust the whitelevel at TP8002 to 3.6 V. Make sure also the tone scale(number of tones) is as specified.
11) Finally press the S5001 switch again to quit theprocess mode.

TROUBLE SHOOTING TABLE

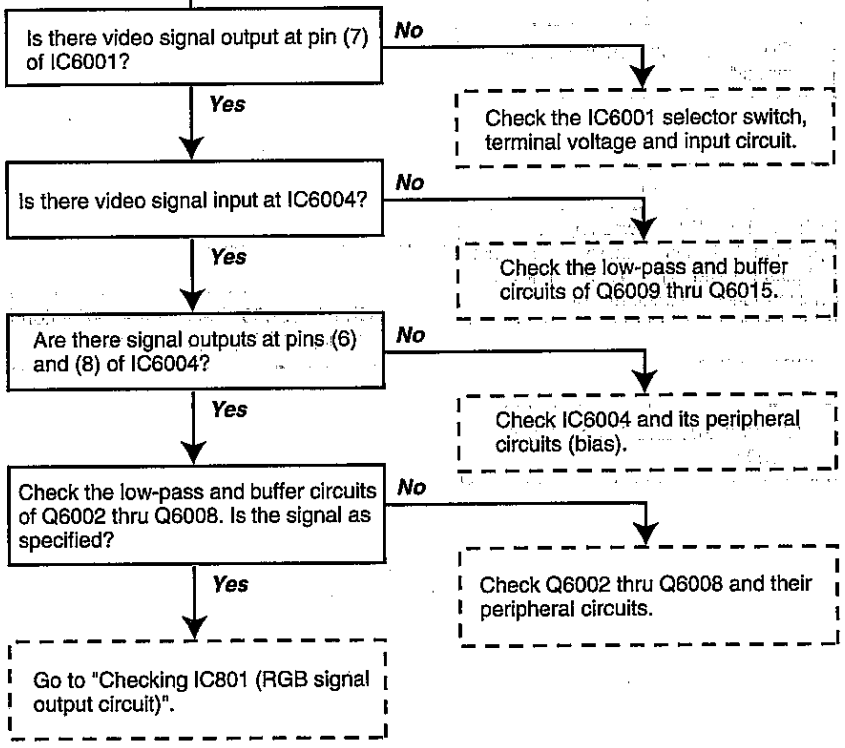

Checking the PWB performance
Video input in trouble
RGB input in trouble
Through-output in trouble
Remote control in trouble
Go to "Checking the video unit circuit".
Feed test pattern signal from PC.
Through-output circuit in trouble.
Go to "Checking the remote control".
Is specified cable connected between PC and projector?
No
Use specified cable.
Yes
Is supply voltage as specified?
No
Power circuit in trouble.
Yes
Does image appear?
No
Check the connectors, starting from the PC input circuit.
Yes
Go to "Trouble shooting table for PC I/F unit ".

TROUBLE SHOOTING TABLE (Continued)

Checking the video system

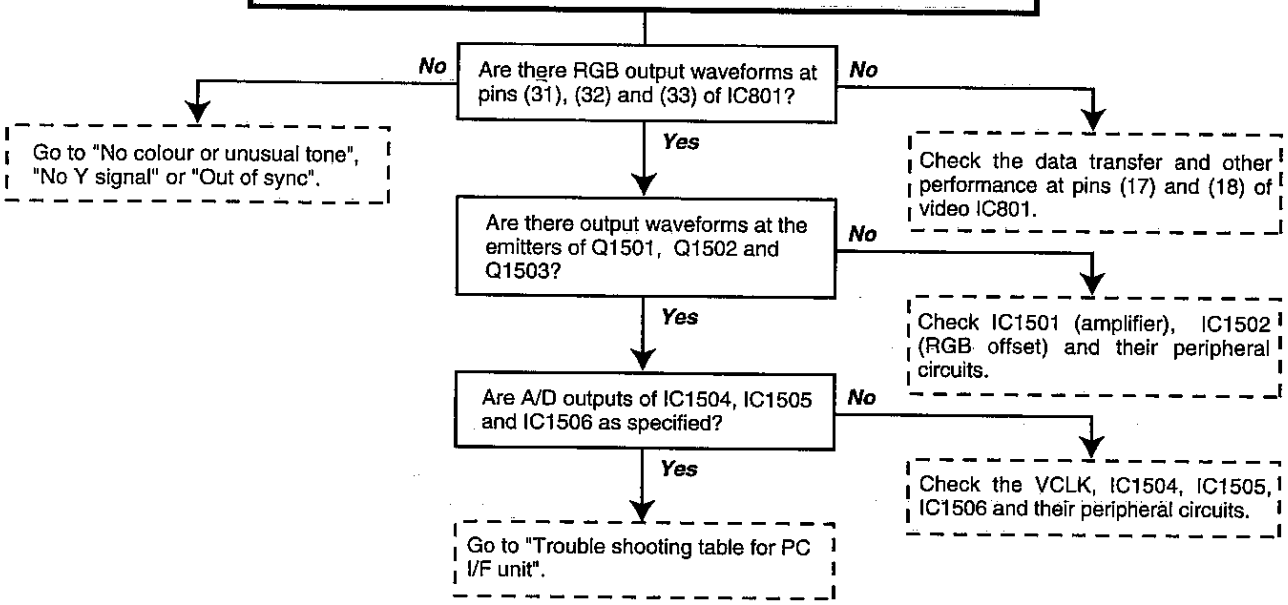

Is the lamp on?
No
Yes
Go to "Lamp fails to light-up".
Is specified voltage fed to EA connectors?
No
Yes
Check the power circuit and its parts.
Are there signal inputs at pins (3) and (29) of P402?
No
Yes
Are there signals at pin (4) of IC401 and pin (4) of IC402?
Yes
No
Are there signal outputs at pins (3) and (6) of IC816?
Yes
No
Check the video unit circuit (IC6004 and its peripheral circuits).
Check the oscillation circuit of IC401 and IC402, and their peripheral circuits.
Go to "Checking IC801 (RGB signal output circuit)".
Check IC816, IC806 and their peripheral circuits as well as switching circuit.

Checking the video unit circuit

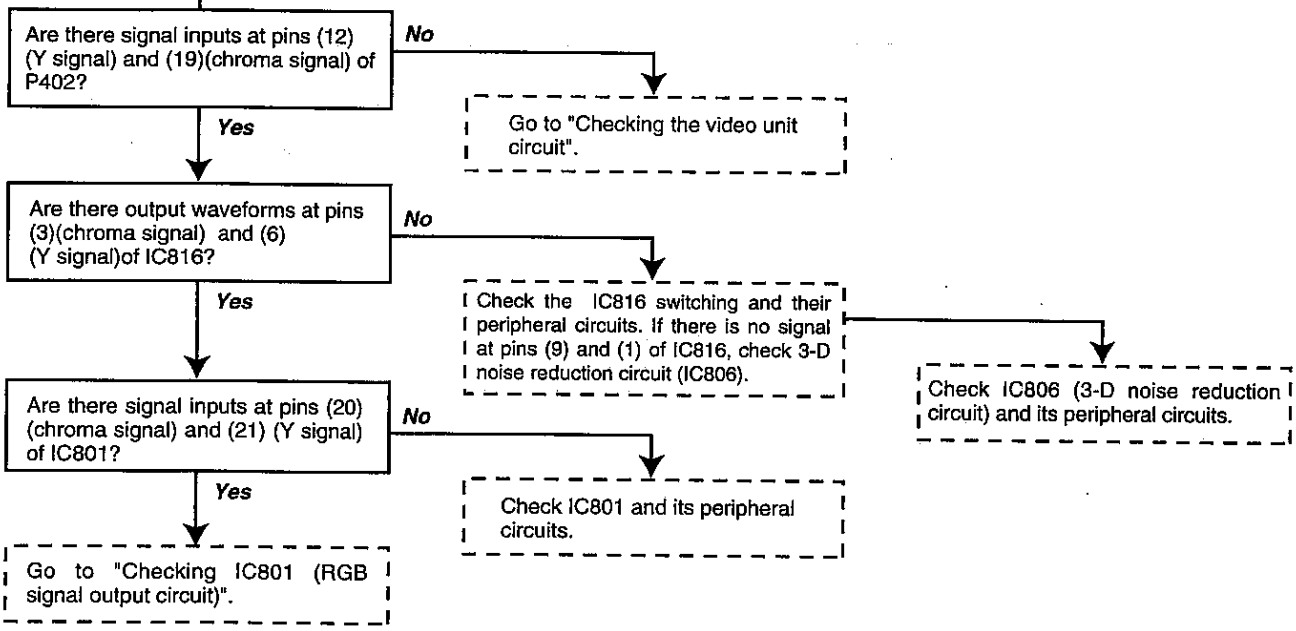

Is there video signal output at pin (7) of IC6001?
No
Yes
Check the IC6001 selector switch, terminal voltage and input circuit.
Is there video signal input at IC6004?
No
Yes
Check the low-pass and buffer circuits of Q6009 thru Q6015.
Are there signal outputs at pins (6) and (8) of IC6004?
No
Yes
Check IC6004 and its peripheral circuits (bias).
Check the low-pass and buffer circuits of Q6002 thru Q6008. Is the signal as specified?
No
Yes
Check Q6002 thru Q6008 and their peripheral circuits.
Go to "Checking IC801 (RGB signal output circuit)".

TROUBLE SHOOTING TABLE (Continued)

Checking IC801 (RGB signal output circuit)

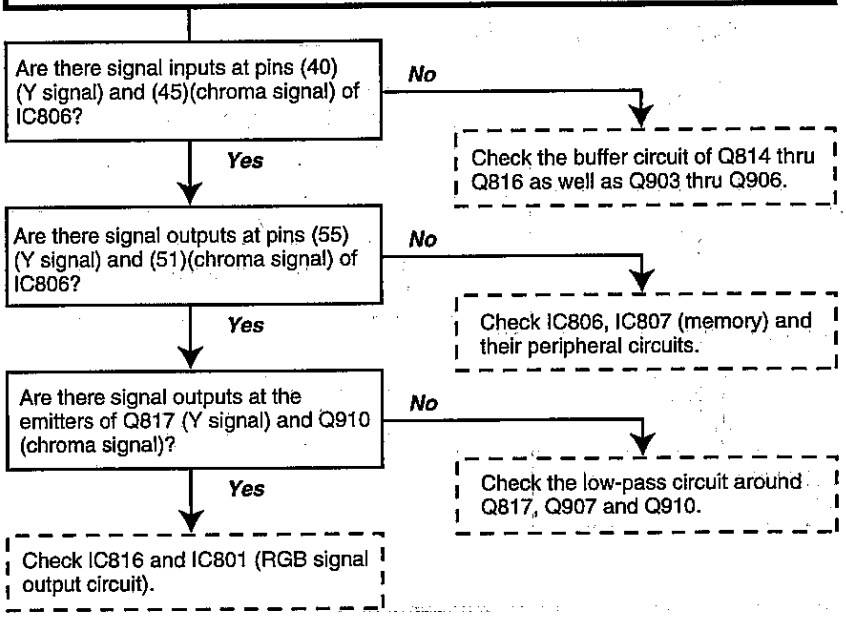

Are there RGB output waveforms at pins (31), (32) and (33) of IC801?
No
Go to "No colour or unusual tone", "No Y signal" or "Out of sync".
No
Check the data transfer and other performance at pins (17) and (18) of video IC801.
Yes
Are there output waveforms at the emitters of Q1501, Q1502 and Q1503?
No
Check IC1501 (amplifier), IC1502 (RGB offset) and their peripheral circuits.
Yes
Are A/D outputs of IC1504, IC1505 and IC1506 as specified?
No
Check the VCLK, IC1504, IC1505, IC1506 and their peripheral circuits.
Yes
Go to "Trouble shooting table for PC I/F unit".

Checking the chroma and Y signals of IC801 (RGB signal output)

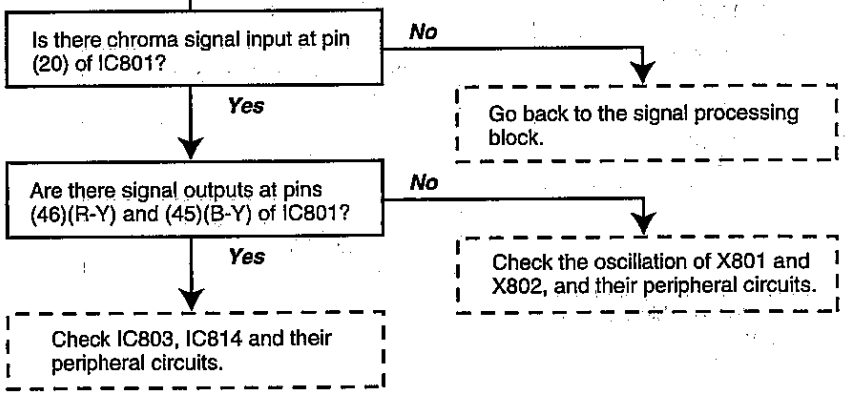

Are there signal inputs at pins (12) (Y signal) and (19)(chroma signal) of P402?
No
Go to "Checking the video unit circuit".
Yes
Are there output waveforms at pins (3)(chroma signal) and (6) (Y signal)of IC816?
No
Check the IC816 switching and their peripheral circuits. If there is no signal at pins (9) and (1) of IC816, check 3-D noise reduction circuit (IC806).
Check IC806 (3-D noise reduction circuit) and its peripheral circuits.
Yes
Are there signal inputs at pins (20) (chroma signal) and (21) (Y signal) of IC801?
No
Check IC801 and its peripheral circuits.
Yes
Go to "Checking IC801 (RGB signal output circuit)".

TROUBLE SHOOTING TABLE (Continued)

Checking IC806 (3-D noise reduction circuit) and its peripheral circuits

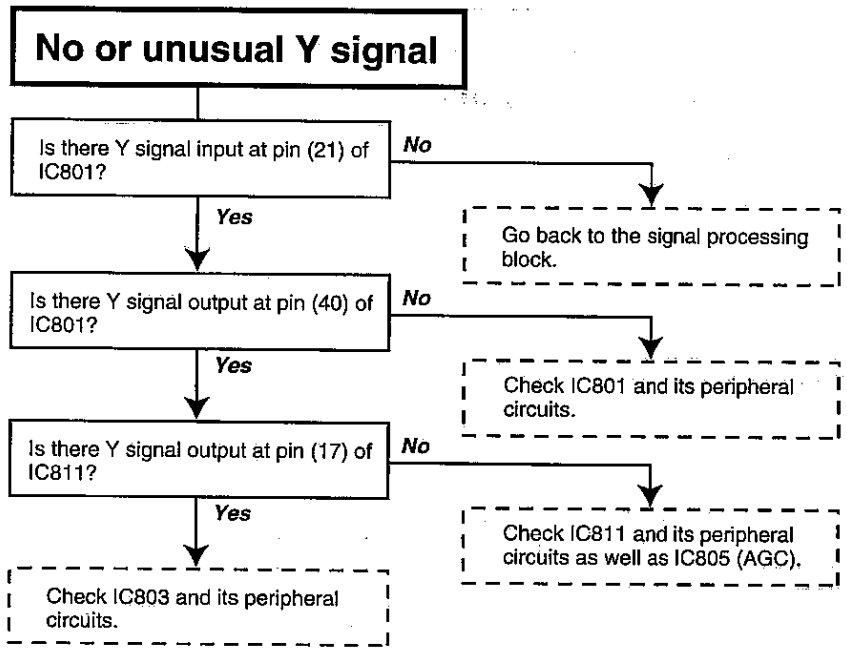

Are there signal inputs at pins (40) (Y signal) and (45)(chroma signal) of IC806?
No
Check the buffer circuit of Q814 thru Q816 as well as Q903 thru Q906.
Yes
Are there signal outputs at pins (55) (Y signal) and (51)(chroma signal) of IC806?
No
Check IC806, IC807 (memory) and their peripheral circuits.
Yes
Are there signal outputs at the emitters of Q817 (Y signal) and Q910 (chroma signal)?
No
Check the low-pass circuit around Q817, Q907 and Q910.
Yes
Check IC816 and IC801 (RGB signal output circuit).

No colour or unusual tone (NTSC, PAL)

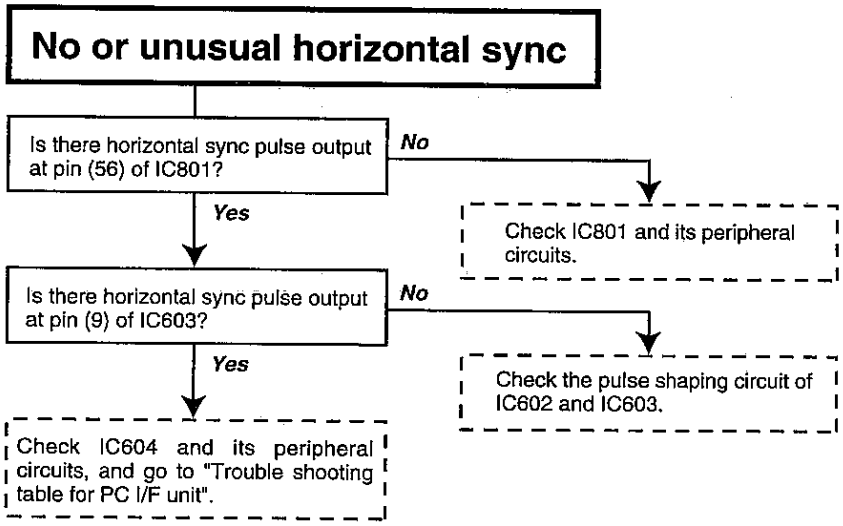

Is there chroma signal input at pin (20) of IC801?
No
Go back to the signal processing block.
Yes
Are there signal outputs at pins (46)(R-Y) and (45)(B-Y) of IC801?
No
Check the oscillation of X801 and X802, and their peripheral circuits.
Yes
Check IC803, IC814 and their peripheral circuits.

TROUBLE SHOOTING TABLE (Continued)

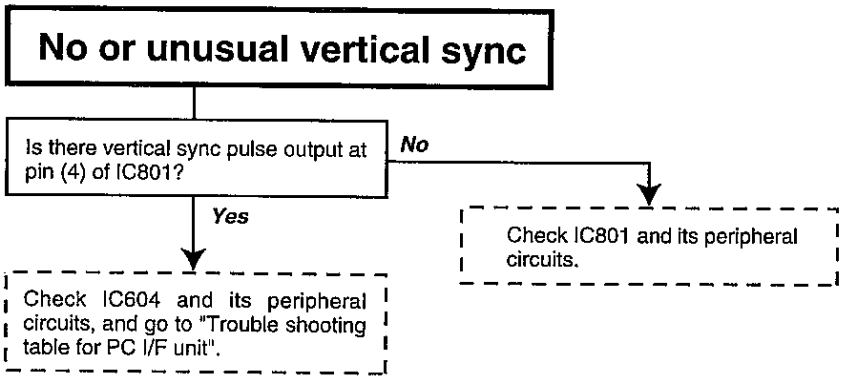
No or unusual Y signal


Is there Y signal input at pin (21) of IC801?
No
Yes
Go back to the signal processing block.
Is there Y signal output at pin (40) of IC801?
No
Yes
Check IC801 and its peripheral circuits.
Is there Y signal output at pin (17) of IC811?
No
Yes
Check IC811 and its peripheral circuits as well as IC805 (AGC).
Check IC803 and its peripheral circuits.

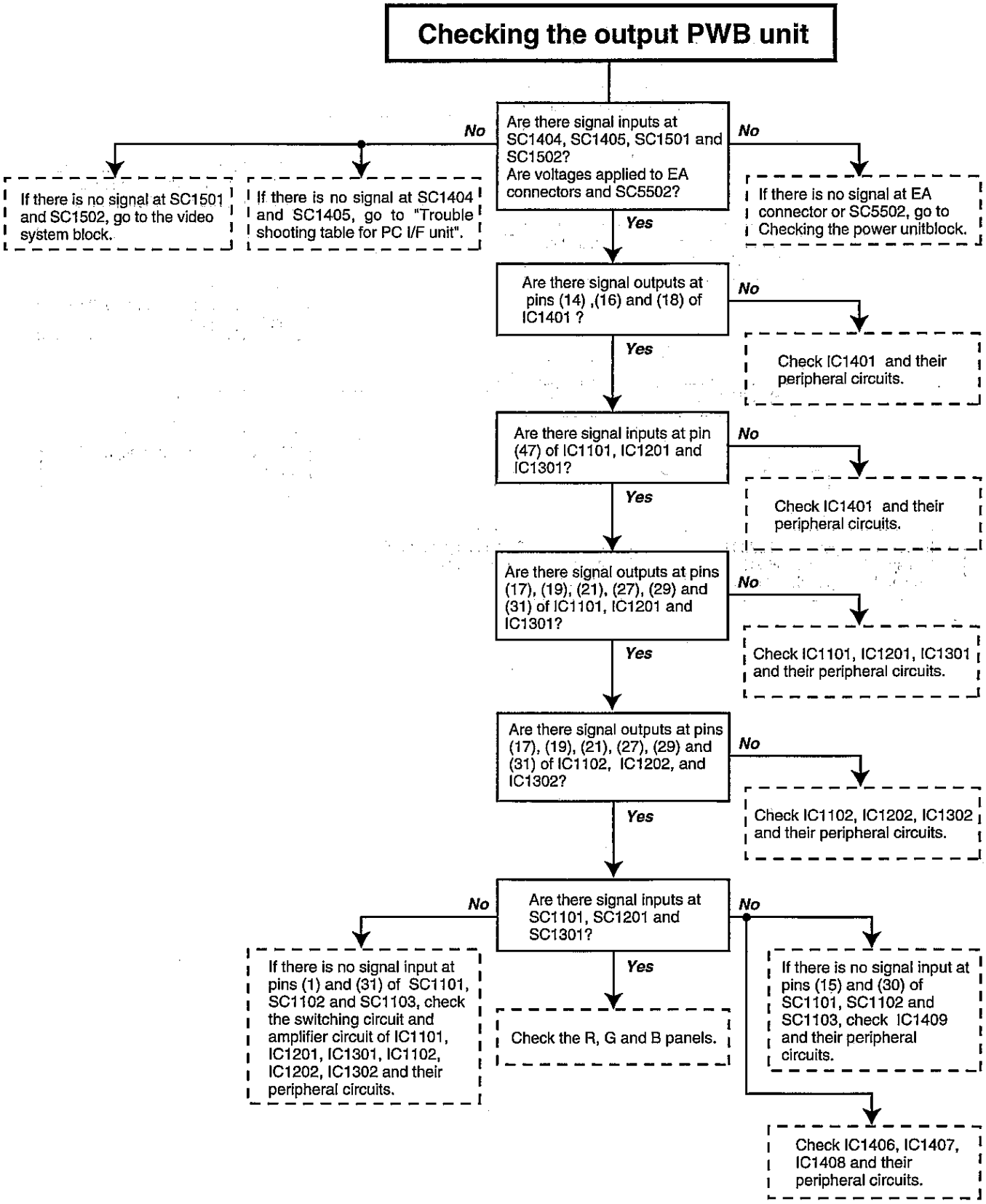
No or unusual horizontal sync


Is there horizontal sync pulse output at pin (56) of IC801?
No
Yes
Check IC801 and its peripheral circuits.
Is there horizontal sync pulse output at pin (9) of IC603?
No
Yes
Check the pulse shaping circuit of IC602 and IC603.
Check IC604 and its peripheral circuits, and go to "Trouble shooting table for PC I/F unit".

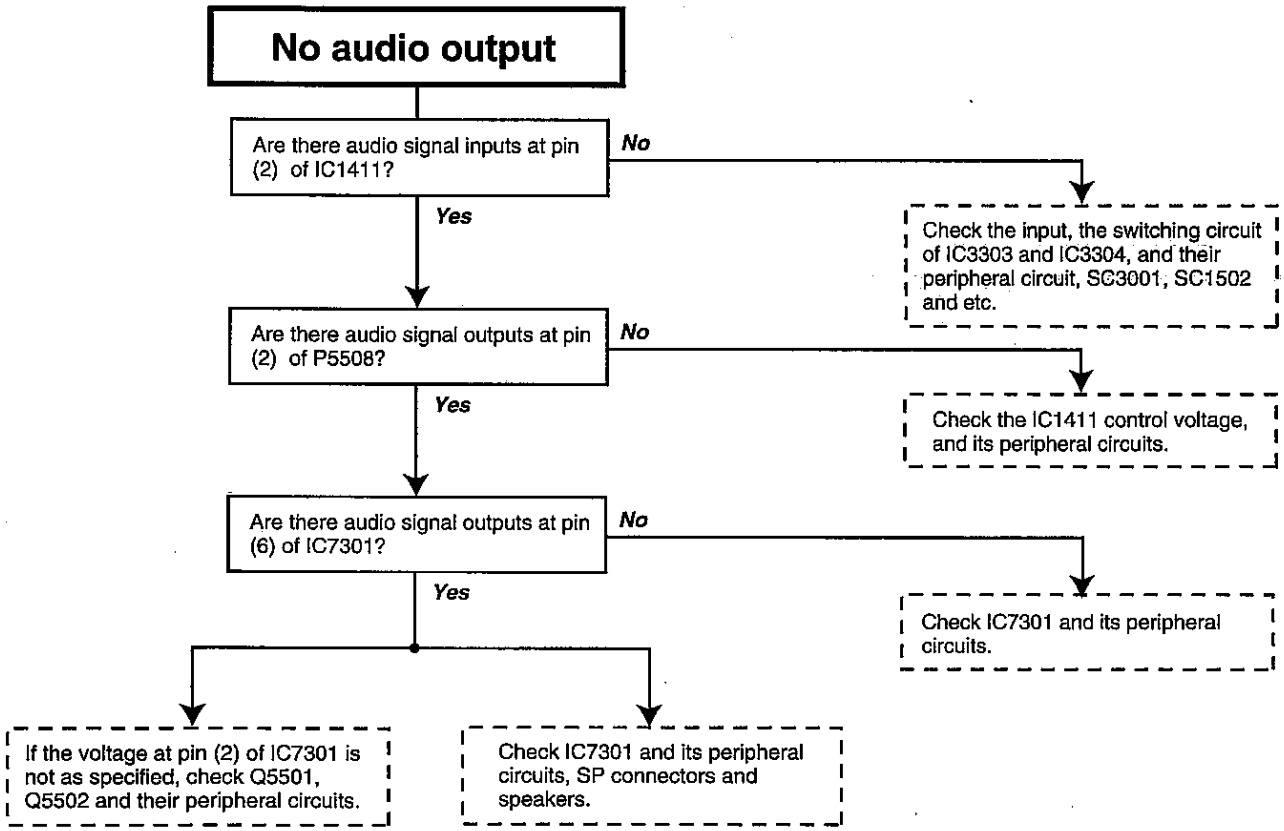
No or unusual vertical sync


Is there vertical sync pulse output at pin (4) of IC801?
No
Yes
Check IC801 and its peripheral circuits.
Check IC604 and its peripheral circuits, and go to "Trouble shooting table for PC I/F unit".

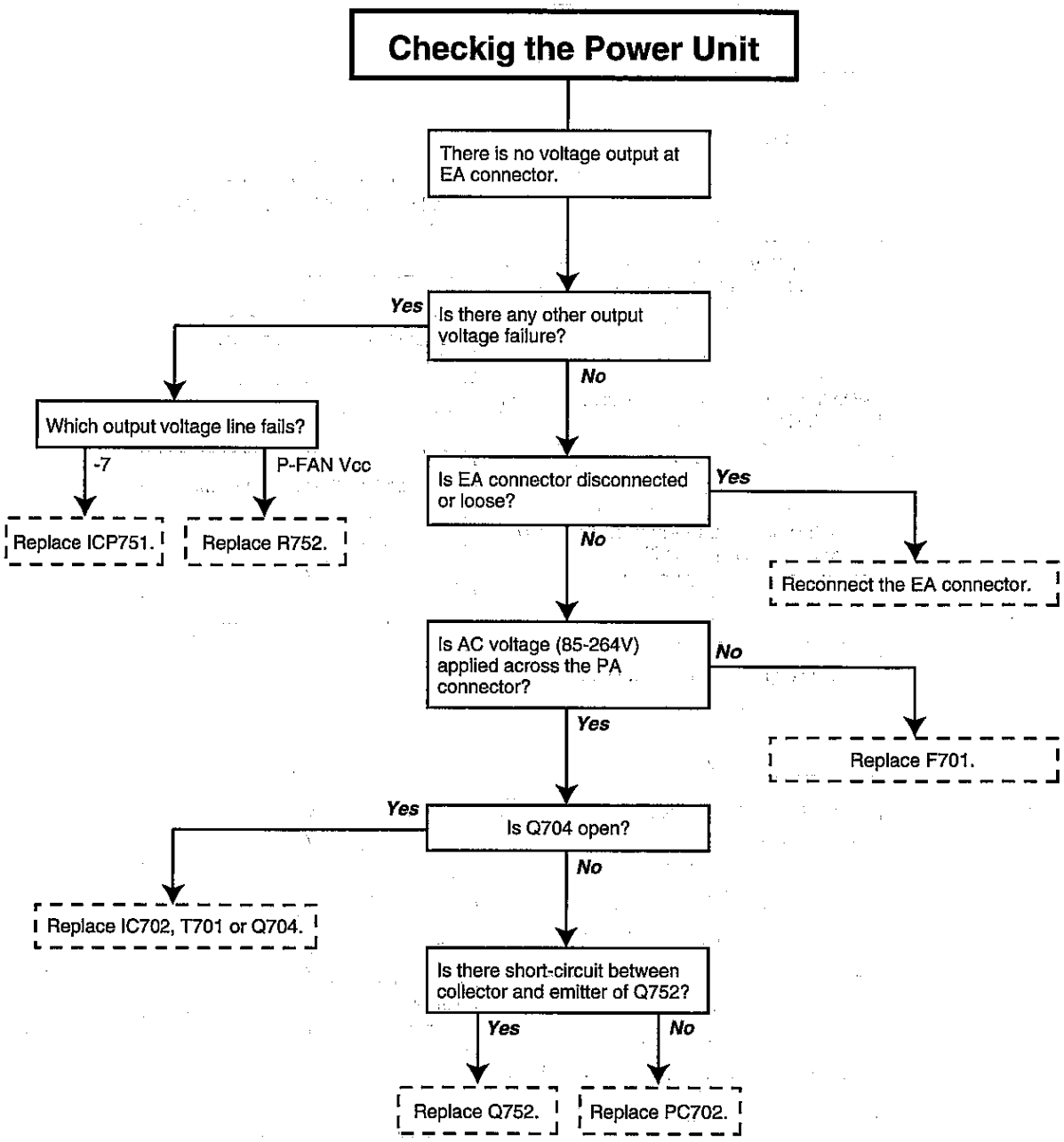
TROUBLE SHOOTING TABLE (Continued)


Checking the output PWB unit
Are there signal inputs at SC1404, SC1405, SC1501 and SC1502?
Are voltages applied to EA connectors and SC5502?
No
If there is no signal at SC1501 and SC1502, go to the video system block.
If there is no signal at SC1404 and SC1405, go to "Trouble shooting table for PC I/F unit".
No
If there is no signal at EA connector or SC5502, go to Checking the power unitblock.
Yes
Are there signal outputs at pins (14) ,(16) and (18) of IC1401 ?
No
Check IC1401 and their peripheral circuits.
Yes
Are there signal inputs at pin (47) of IC1101, IC1201 and IC1301?
No
Check IC1401 and their peripheral circuits.
Yes
Are there signal outputs at pins (17), (19), (21), (27), (29) and (31) of IC1101, IC1201 and IC1301?
No
Check IC1101, IC1201, IC1301 and their peripheral circuits.
Yes
Are there signal outputs at pins (17), (19), (21), (27), (29) and (31) of IC1102, IC1202, and IC1302?
No
Check IC1102, IC1202, IC1302 and their peripheral circuits.
Yes
Are there signal inputs at SC1101, SC1201 and SC1301?
No
If there is no signal input at pins (1) and (31) of SC1101, SC1102 and SC1103, check the switching circuit and amplifier circuit of IC1101, IC1201, IC1301, IC1102, IC1202, IC1302 and their peripheral circuits.
Yes
Check the R, G and B panels.
No
If there is no signal input at pins (15) and (30) of SC1101, SC1102 and SC1103, check IC1409 and their peripheral circuits.
Check IC1406, IC1407, IC1408 and their peripheral circuits.

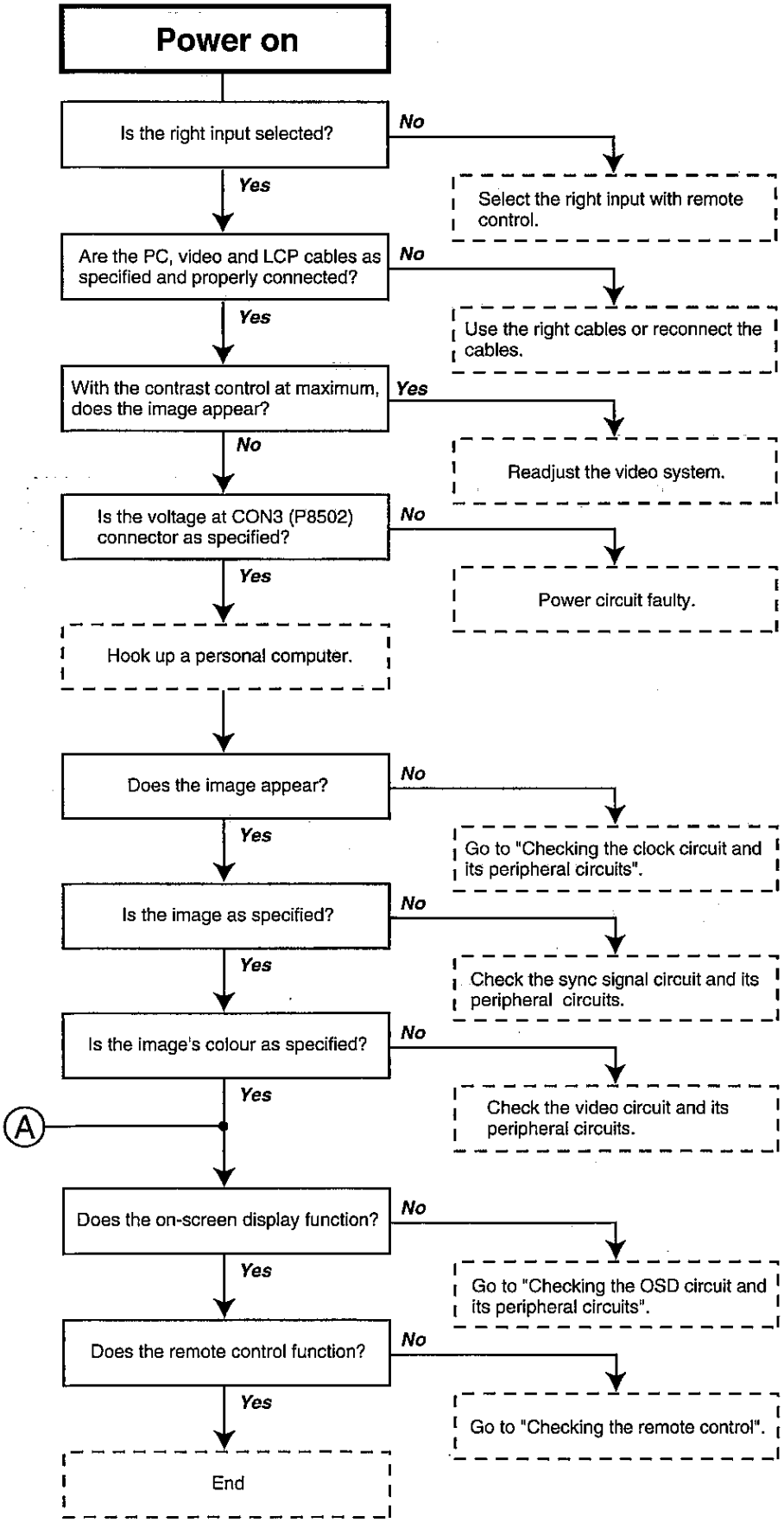
TROUBLE SHOOTING TABLE (Continued)


No audio output
Are there audio signal inputs at pin (2) of IC1411?
No
Yes
Check the input, the switching circuit of IC3303 and IC3304, and their peripheral circuit, SC3001, SC1502 and etc.
Are there audio signal outputs at pin (2) of P5508?
No
Yes
Check the IC1411 control voltage, and its peripheral circuits.
Are there audio signal outputs at pin (6) of IC7301?
No
Yes
Check IC7301 and its peripheral circuits.
If the voltage at pin (2) of IC7301 is not as specified, check Q5501, Q5502 and their peripheral circuits.
Check IC7301 and its peripheral circuits, SP connectors and speakers.

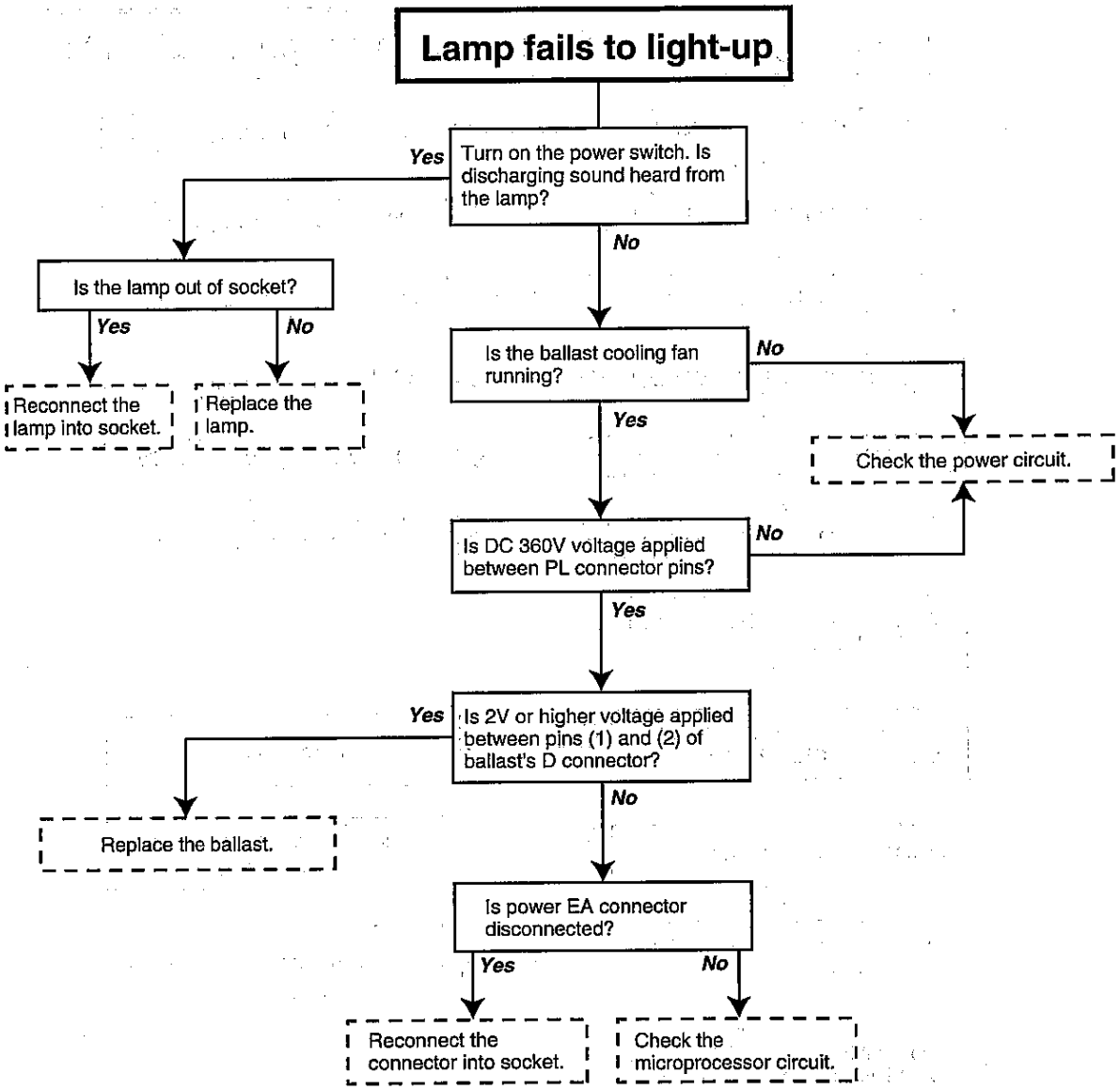
TROUBLE SHOOTING TABLE (Continued)



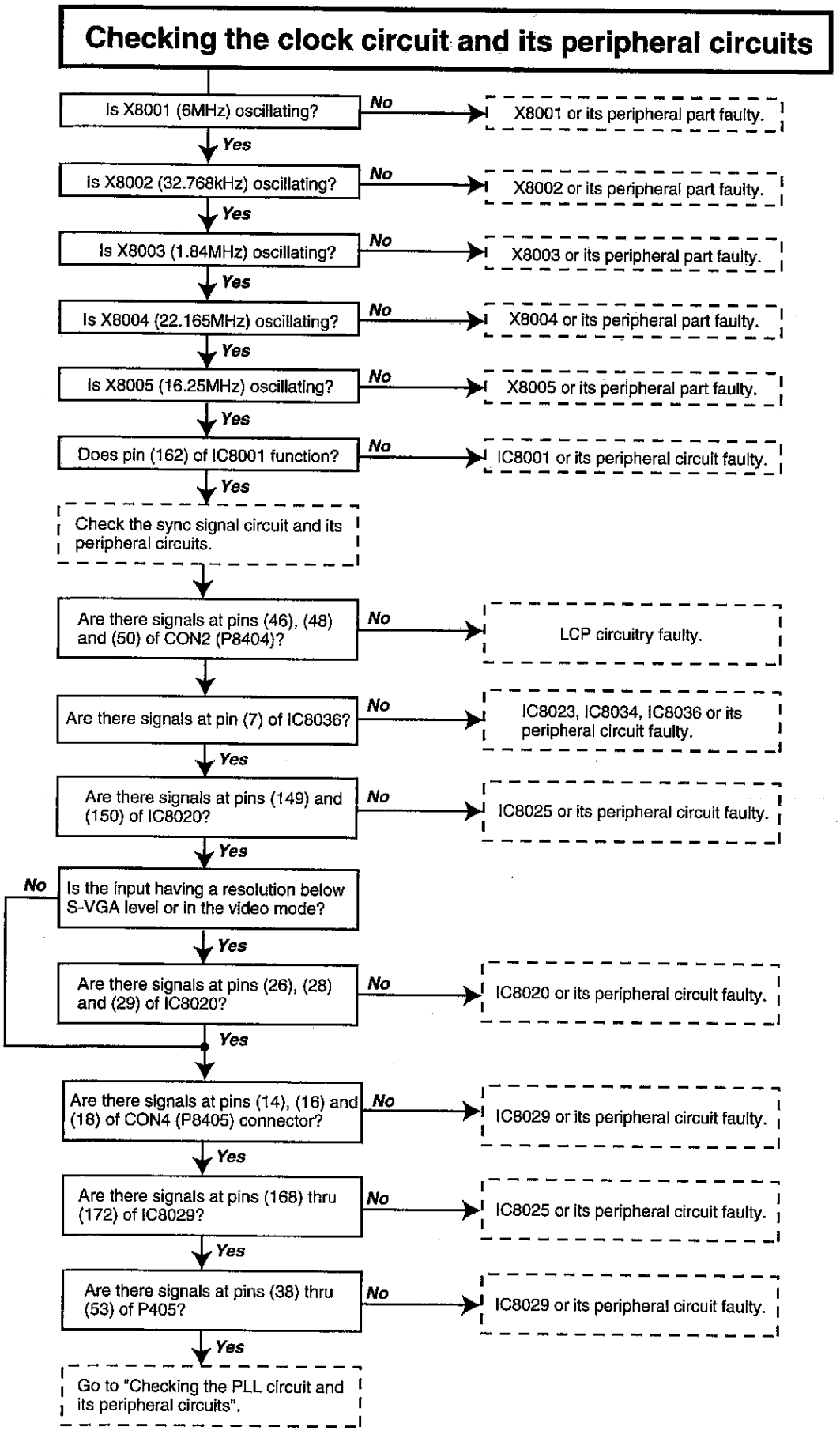
TROUBLE SHOOTING TABLE (Continued)



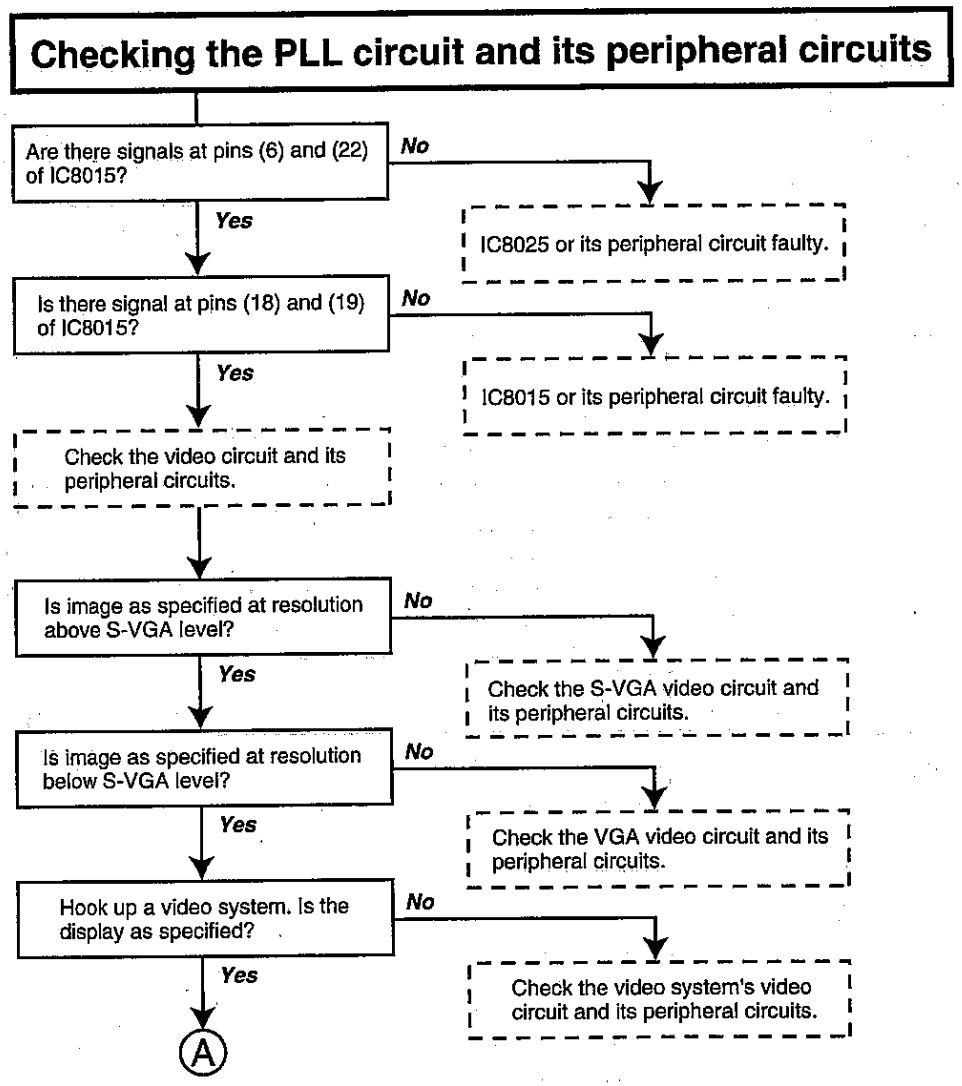
TROUBLE SHOOTING TABLE (Continued)



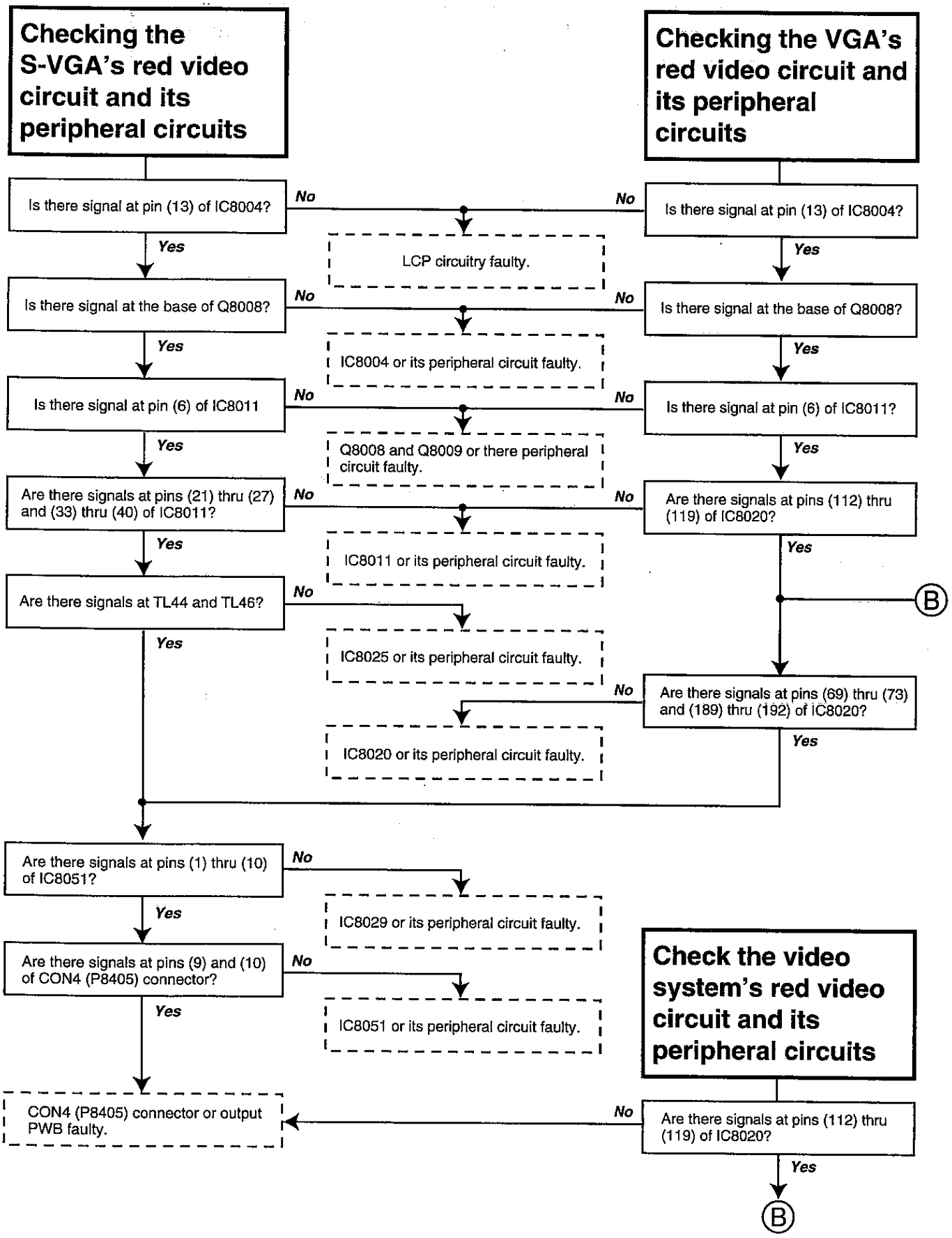
TROUBLE SHOOTING TABLE FOR PC I/F UNIT-1


Checking the clock circuit and its peripheral circuits
Is X8001 (6MHz) oscillating?
No
X8001 or its peripheral part faulty.
Yes
Is X8002 (32.768kHz) oscillating?
No
X8002 or its peripheral part faulty.
Yes
Is X8003 (1.84MHz) oscillating?
No
X8003 or its peripheral part faulty.
Yes
Is X8004 (22.165MHz) oscillating?
No
X8004 or its peripheral part faulty.
Yes
Is X8005 (16.25MHz) oscillating?
No
X8005 or its peripheral part faulty.
Yes
Does pin (162) of IC8001 function?
No
IC8001 or its peripheral circuit faulty.
Yes
Check the sync signal circuit and its peripheral circuits.
Are there signals at pins (46), (48) and (50) of CON2 (P8404)?
No
LCP circuitry faulty.
Are there signals at pin (7) of IC8036?
No
IC8023, IC8034, IC8036 or its peripheral circuit faulty.
Yes
Are there signals at pins (149) and (150) of IC8020?
No
IC8025 or its peripheral circuit faulty.
Yes
No
Is the input having a resolution below S-VGA level or in the video mode?
Yes
Are there signals at pins (26), (28) and (29) of IC8020?
No
IC8020 or its peripheral circuit faulty.
Yes
Are there signals at pins (14), (16) and (18) of CON4 (P8405) connector?
No
IC8029 or its peripheral circuit faulty.
Yes
Are there signals at pins (168) thru (172) of IC8029?
No
IC8025 or its peripheral circuit faulty.
Yes
Are there signals at pins (38) thru (53) of P405?
No
IC8029 or its peripheral circuit faulty.
Yes
Go to "Checking the PLL circuit and its peripheral circuits".

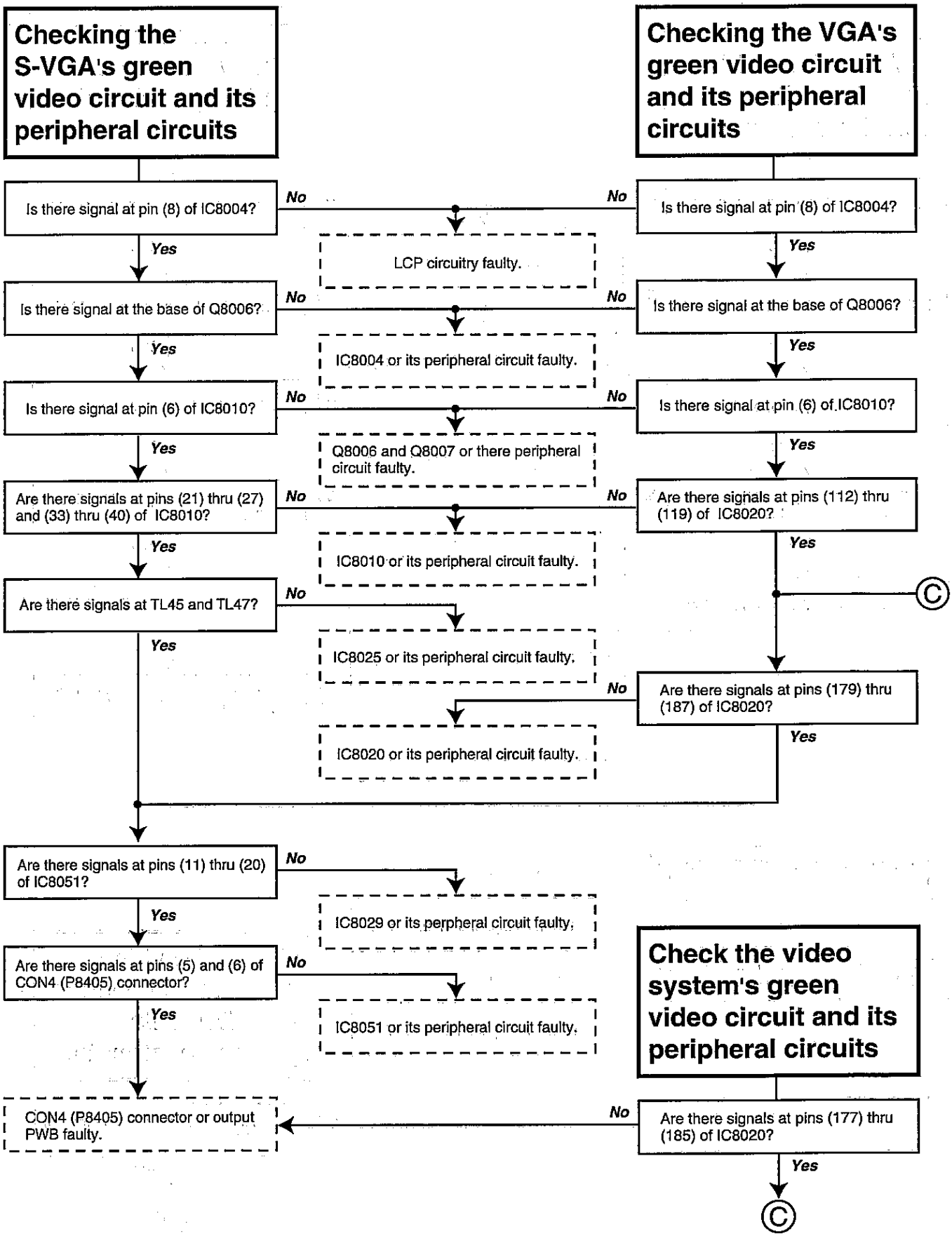
TROUBLE SHOOTING TABLE FOR PC I/F UNIT-2


Checking the PLL circuit and its peripheral circuits
Are there signals at pins (6) and (22) of IC8015?
No
IC8025 or its peripheral circuit faulty.
Yes
Is there signal at pins (18) and (19) of IC8015?
No
IC8015 or its peripheral circuit faulty.
Yes
Check the video circuit and its peripheral circuits.
Is image as specified at resolution above S-VGA level?
No
Check the S-VGA video circuit and its peripheral circuits.
Yes
Is image as specified at resolution below S-VGA level?
No
Check the VGA video circuit and its peripheral circuits.
Yes
Hook up a video system. Is the display as specified?
No
Check the video system's video circuit and its peripheral circuits.
Yes
A

TROUBLE SHOOTING TABLE FOR PC I/F UNIT-3


Checking the S-VGA's red video circuit and its peripheral circuits
Is there signal at pin (13) of IC8004?
No
Yes
LCP circuitry faulty.
Is there signal at the base of Q8008?
No
Yes
IC8004 or its peripheral circuit faulty.
Is there signal at pin (6) of IC8011
No
Yes
Q8008 and Q8009 or there peripheral circuit faulty.
Are there signals at pins (21) thru (27) and (33) thru (40) of IC8011?
No
Yes
IC8011 or its peripheral circuit faulty.
Are there signals at TL44 and TL46?
No
Yes
IC8025 or its peripheral circuit faulty.
Checking the VGA's red video circuit and its peripheral circuits
Is there signal at pin (13) of IC8004?
No
Yes
Is there signal at the base of Q8008?
No
Yes
Is there signal at pin (6) of IC8011?
No
Yes
Are there signals at pins (112) thru (119) of IC8020?
No
Yes
B
Are there signals at pins (69) thru (73) and (189) thru (192) of IC8020?
No
Yes
IC8020 or its peripheral circuit faulty.
Are there signals at pins (1) thru (10) of IC8051?
No
Yes
IC8029 or its peripheral circuit faulty.
Are there signals at pins (9) and (10) of CON4 (P8405) connector?
No
Yes
IC8051 or its peripheral circuit faulty.
CON4 (P8405) connector or output PWB faulty.
Check the video system's red video circuit and its peripheral circuits
Are there signals at pins (112) thru (119) of IC8020?
No
Yes
B

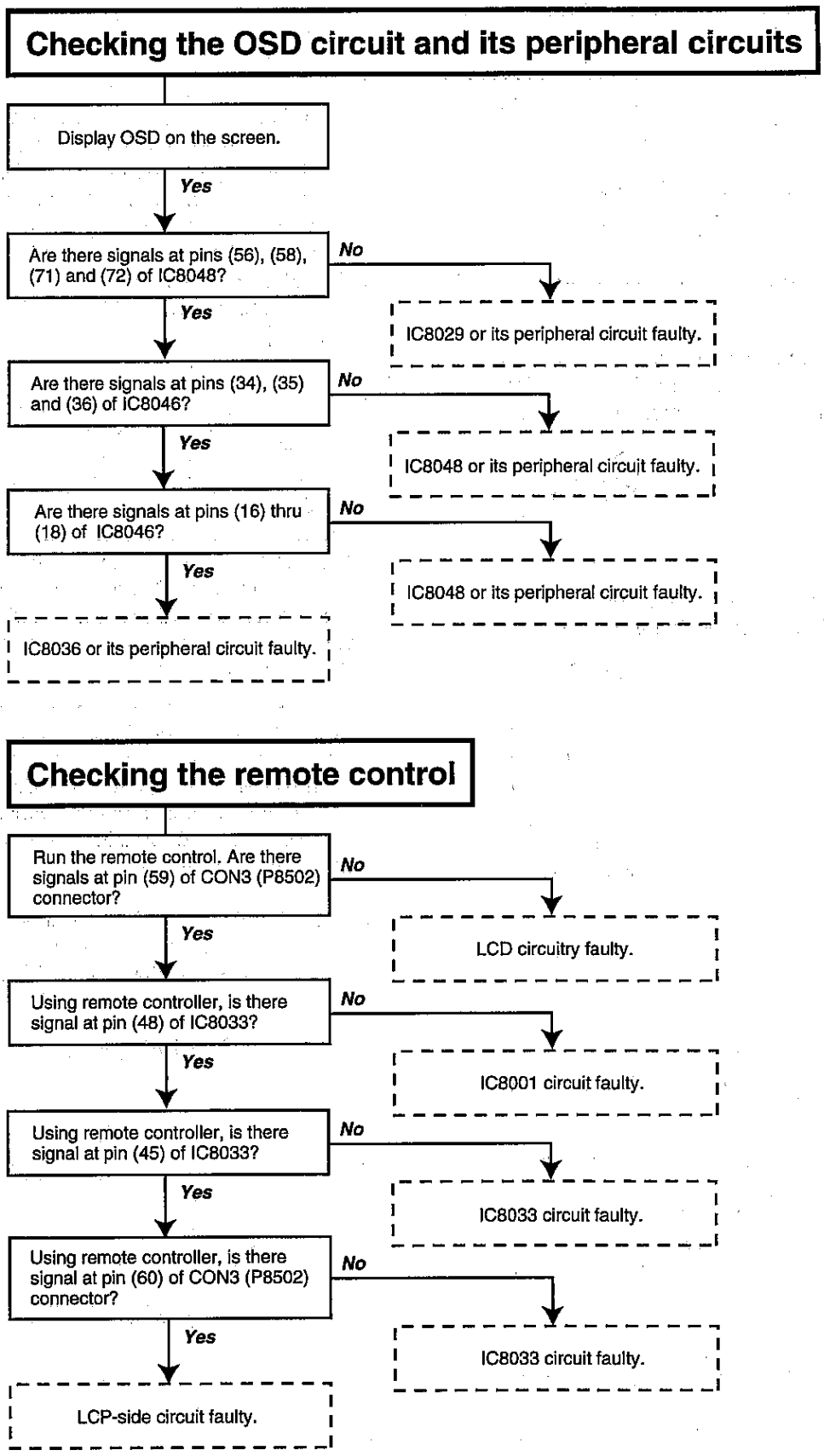
TROUBLE SHOOTING TABLE FOR PC I/F UNIT-4


Checking the S-VGA's green video circuit and its peripheral circuits
Is there signal at pin (8) of IC8004?
No
Yes
LCP circuitry faulty.
Is there signal at the base of Q8006?
No
Yes
IC8004 or its peripheral circuit faulty.
Is there signal at pin (6) of IC8010?
No
Yes
Q8006 and Q8007 or there peripheral circuit faulty.
Are there signals at pins (21) thru (27) and (33) thru (40) of IC8010?
No
Yes
IC8010 or its peripheral circuit faulty.
Are there signals at TL45 and TL47?
No
Yes
IC8025 or its peripheral circuit faulty.
Are there signals at pins (11) thru (20) of IC8051?
No
Yes
IC8029 or its perpheral circuit faulty.
Are there signals at pins (5) and (6) of CON4 (P8405) connector?
No
Yes
IC8051 or its peripheral circuit faulty.
CON4 (P8405) connector or output PWB faulty.
Checking the VGA's green video circuit and its peripheral circuits
Is there signal at pin (8) of IC8004?
No
Yes
Is there signal at the base of Q8006?
No
Yes
Is there signal at pin (6) of IC8010?
No
Yes
Are there signals at pins (112) thru (119) of IC8020?
No
Yes
Ⓒ
Are there signals at pins (179) thru (187) of IC8020?
No
Yes
Check the video system's green video circuit and its peripheral circuits
Are there signals at pins (177) thru (185) of IC8020?
No
Yes
Ⓒ

TROUBLE SHOOTING TABLE FOR PC I/F UNIT-5

Checking the S-VGA's blue video circuit and its peripheral circuits
Is there signal at pin (3) of IC8004?
No
Yes
LCP circuitry faulty.
Is there signal at the base of Q8004?
No
Yes
IC8004 or its peripheral circuit faulty.
Is there signal at pin (6) of IC8009?
No
Yes
Q8004 and Q8005 or there peripheral circuit faulty.
Are there signals at pins (21) thru (27) and (33) thru (40) of IC8009?
No
Yes
IC8009 or its peripheral circuit faulty.
Are there signals at TL48 and TL49?
No
Yes
IC8020 or its peripheral circuit faulty.
Are there signal at pins (21) thru (30) of IC8051?
No
Yes
IC8018 or its peripheral circuit faulty.
Are there signal at pins (1) and (2) of CON4 (P8405) connector?
No
Yes
IC8051 or its peripheral circuit faulty.
CON4 (P8405) connector or output PWB faulty.
Checking the VGA's blue video circuit and its peripheral circuits
Is there signal at pin (3) of IC8004?
No
Yes
Is there signal at the base of Q8004?
No
Yes
Is there signal at pin (6) of IC8009?
No
Yes
Are there signals at pins (112) thru (119) of IC8020?
No
Yes
D
Are there signals at pins (74) thru (83) of IC8020?
No
Yes
Check the video system's blue video circuit and its peripheral circuits.
Are there signals at pins (85) thru (93) of IC8020?
No
Yes
D

TROUBLE SHOOTING TABLE FOR PC I/F UNIT-6


Checking the OSD circuit and its peripheral circuits
Display OSD on the screen.
Yes
Are there signals at pins (56), (58), (71) and (72) of IC8048?
No
IC8029 or its peripheral circuit faulty.
Yes
Are there signals at pins (34), (35) and (36) of IC8046?
No
IC8048 or its peripheral circuit faulty.
Yes
Are there signals at pins (16) thru (18) of IC8046?
No
IC8048 or its peripheral circuit faulty.
Yes
IC8036 or its peripheral circuit faulty.
Checking the remote control
Run the remote control. Are there signals at pin (59) of CON3 (P8502) connector?
No
LCD circuitry faulty.
Yes
Using remote controller, is there signal at pin (48) of IC8033?
No
IC8001 circuit faulty.
Yes
Using remote controller, is there signal at pin (45) of IC8033?
No
IC8033 circuit faulty.
Yes
Using remote controller, is there signal at pin (60) of CON3 (P8502) connector?
No
IC8033 circuit faulty.
Yes
LCP-side circuit faulty.

HINWEIS FÜR DAS WARTUNGSPERSONAL

ACHTUNG: UV-STRAHLUNG

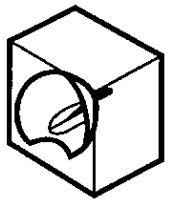
Die Lichtquelle im LCD-Projektor, eine Metall-Halogen-Lampe, gibt eine geringe UV-Strahlung ab.

DIREKTE BESTRAHLUNG AUF AUGEN UND HAUT MUSS VERMIEDEN WERDEN.

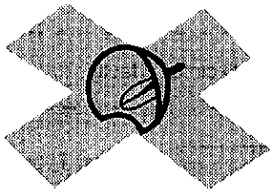
Zur Gewährleistung der Sicherheit muß folgendes beachtet werden:

1. Bei Arbeiten am Projektor bei eingeschalteter Lampe und abgenommenem oberen Gehäuse muß unbedingt eine Sonnenbrille getragen werden.

2. Die Lampe darf nicht außerhalb des Lampengehäuses eingeschaltet werden.



3. Betrieb für länger als 2 Stunden bei abgenommenem Gehäuse ist nicht zulässig.



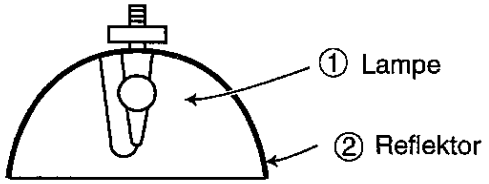
Zur Beachtung bei UV-Strahlung und Mitteldruck-Lampen

1. Vor dem Auswechseln der Lampe muß der Netzstecker gezogen werden.
2. Vor Durchführung von Wartungsarbeiten muß das Gerät eine Stunde abkühlen.
3. Nur mit dem gleichen Lampentyp ersetzen Typ CLMPF0057DE03 oder BQC-XGNV51XE1; Nennleistung 75 V/180 W.
4. Die Lampe gibt eine geringe UV-Strahlung ab, daher muß direkter Augenkontakt vermieden werden.
5. Die Mitteldruck-Lampe weist ein Explosionsrisiko auf. Daher müssen die nachstehenden Installationsanweisungen beachtet werden, und die Lampe muß vorsichtig behandelt werden.

■ Auswechseln der Lampe

Hinweis:

Da die Lampe während des Betriebs sehr heiß wird, sollte die Lampe erst ausgewechselt werden, nachdem das Gerät mindestens eine Stunde ausgeschaltet war, damit die Lampe ausreichend abkühlen kann.
Beim Installieren der neuen Lampe muß darauf geachtet werden, die Lampe selbst (Glaskolben) nicht zu berühren. Vielmehr muß die Lampe am Reflektor ② gehalten werden.
[Es darf nur ein Original-Ersatzteil verwendet werden.]



GEFAHR! — Niemals die Spannungsversorgung einschalten, ohne daß eine Lampe vorhanden ist, um elektrische Schläge und Schäden am Gerät zu vermeiden, da der Stabilisator anfangs hohe Spannungen erzeugt.

Da eine geringe UV-Strahlung aus einer Öffnung zwischen der Schachtabdeckung und dem Lampengehäuse austritt, sollte der Objektivdeckel bei Wartungsarbeiten auf die Öffnung gesetzt werden, um die Bestrahlung von Augen und Haut zu vermeiden (Abb. 1).

Hinweis: Besorgen Sie sich einen Objektivdeckel, bevor Sie Arbeiten an einem Modelle XG-NV51XE/XM/XA durchführen, das keinen Objektivdeckel aufweist.

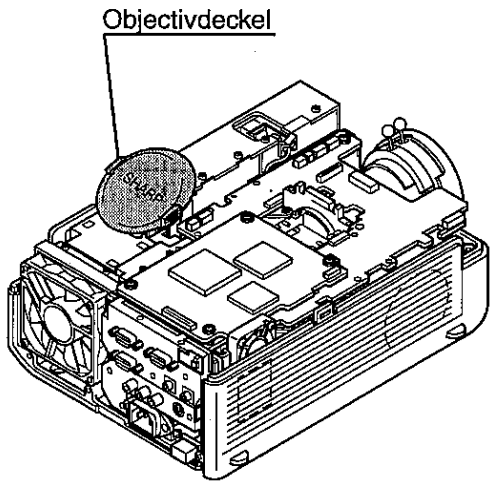


Abbildung 1.

Technische Daten

Produkttyp	LCD Projector
Modell	XG-NV51XE/XM/XA
Videosystem	PAL/SECAM/NTSC 3.58/NTSC 4.43
Wiedergabeverfahren	LCD-Projektionspaneel × 3, optisches RGB-Verschlußverfahren
LCD-Projektionspaneel	Panelgröße: 22,9 mm (0,9″) (13,9 mm [H] × 18,5 mm [B]) Wiedergabe-Verfahren: Durchlässiges TN-Flüssigkristall-Paneel Treiberverfahren: TFT (Dünnfilmtransistor) Aktivmatrix-Paneel Anzahl der Bildpunkte: 786.432 Bildpunkte (1.024 [H] × 768 [V])
Objektiv	1–1,3 Zoomobjektiv, F1,7–2,0, f = 33–43 mm
Projektionslampe	180 W Gleichstrom-Lampe
Kontrastverhältnis	200:1
Videoeingangssignal	RCA-Stecker: VIDEO, Gemischtes Video, 1,0 Vs-s, negatives Sync.-Signal, 75 Ω terminiert RCA-Stecker: AUDIO, 0,5 Vrms mehr als 22 kΩ(Stereo)
S-Videoeingangssignal	4-Pin Mini-DIN-Stecker Y (Luminanz-Signal): 1,0 Vs-s, negatives Sync.-Signal, 75 Ω terminiert C (Chrominanz-Signal): Stoß 0,286 Vs-s, 75Ω terminiert
Horizontale Auflösung	580 Fernsehzeilen (Videoeingang), 700 Fernsehzeilen (S-Videoeingang)
Audioausgang	2 W (monaural)
RGB-Computereingangssignal	*Videosignal* 15-Pin Mini D-Sub Steckanschluss(Computer-Eingangsanschluß 1, 2): RGB getrennt/gemischte Sync./Sync. auf Grün-Typ analoger Eingang: 0–0,7 Vs-s, positiv, 75 Ω terminiert Stereo-Minibuchse AUDIO, 0,5 Vrms, mehr als 22 kΩ (Stereo) Horizontales Sync.-Signal: TTL-Pegelsignal (positiv/negativ) oder gemischtes Sync.-Signal (nur Macintosh) Vertikales Sync.-Signal: Wie oben
Computereingangs-Signal	9-Pin D-Sub-Stecker (RS-232C-Eingangsanschluß)
Lautsprechersystem	3 3/32″ (8 cm) round
Nennspannung	110–120/220–240 V Wechselstromspannung
Eingangsspannung	2,6 A/1,3 A
Nennfrequenz	50/60 Hz
Nennaufnahme	290 W
Betriebstemperatur	+5°C bis +40°C
Lagertemperatur	−20°C bis +60°C
Gehäuse	Kunststoff
I/R-Trägerfrequenz	40 kHz
Laserzeiger der „Power"-Fernbedienung	*Wellenlänge:* 670 nm *Max. Ausgang:* 1 mW Klasse II Lasergerät
Abmessungen (ca.)	229× 121× 310 mm (B × H× T) (nur Hauptgerät) 243,5 × 128 × 346,4 mm (B × H × T) (einschließlich Drehfuß-Feststeller und vorstehende Bauteile)
Gewicht (ca.)	4,9 kg
Mitgeliefertes Zubehör	„Power"-Fernbedienung, Fernbedienung für einfache Präsentationen, vier Batterien der Größe AA, zwei Batterien der Größe AAA, Netzkabel (3 m), Computerkabel (3 m), Computer-Audiokabel (3 m), Macintosh-Adapter, Serielles Maus-Steuerungskabel (1 m), Maus-Steuerungskabel für IBM PS/2 (1 m), Maus-Steuerungskabel für Macintosh (17 cm), Fernbedienungs-Mausempfänger, Ersatz-Luftfilter, Objektivkappe (angebracht), Tragetasche, CD-ROM, Bedienungsanleitung für LCD-Projektor, Kurzanleitung für LCD-Projektor, Software-Anleitung für Sharp Advanced Presentation, Kurzanleitung für Sharp Advanced Presentation, Anleitungsblatt für die IrDA-Treiberinstallation
Ersatzteile	„Power"-Fernbedienung (RRMCG1471CESA), Fernbedienung für einfache Präsentationen (RRMCG1480CESA), Batterien der Größe AA, Batterien der Größe AAA, Netzkabel, Computerkabel (QCNW-5108CEZZ), Computer-Audiokabel (QCNW-4870CEZZ), Macintosh-Adapter (QPLGJ1512CEZZ), Serielles Maus-Steuerungskabel (QCNW-5112CEZZ), Maus-Steuerungskabel für IBM PS/2 (QCNW-5113CEZZ), Maus-Steuerungskabel für Macintosh (QCNW-5114CEZZ), Fernbedienungs-Mausempfänger (RUNTK0661CEZZ), Luftfilter (PFILD0076CEZZ), Objektivkappe (GCOVH1307CESB), Tragetasche (GCASN0001CESA), CD-ROM, Bedienungsanleitung für LCD-Projektor, Kurzanleitung für LCD-Projektor, Software-Anleitung für Sharp Advanced Presentation, Kurzanleitung für Sharp Advanced Presentation, Anleitungsblatt für die IrDA-Treiberinstallation

Dieser Projektor von SHARP ist mit 3 LCD-(Flüssigkristallanzeige) Projektionspaneels ausgestattet. Diese neuartigen Projektionspaneels enthalten TFTs (Dünnfilmtransistoren) mit insgesamt 786.432 Bildpunkten (× RGB). Bei allen technologisch fortschrittlichen, elektronischen Geräten, z. B. Großbild-Fernsehern, Videosystemen bzw. Videokameras, sind bestimmte Toleranzgrenzen für die Funktionen gegeben.

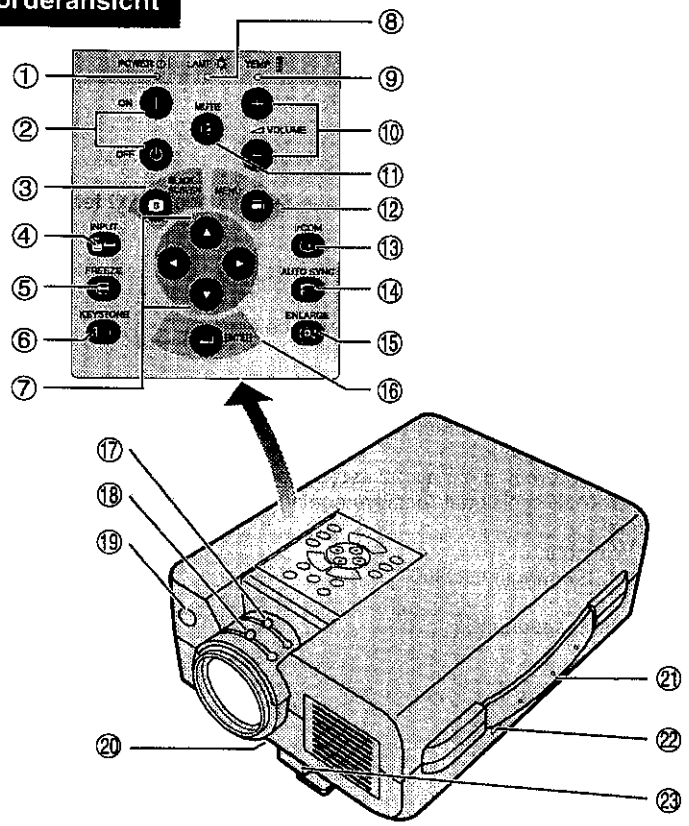
Dieses Gerät hat einige inaktive, innerhalb akzeptierter Toleranzgrenzen liegende TFTs, die als beleuchtete oder als nicht aktive Punkte auf der Bildwand wiedergegeben werden. Dies hat keinen Einfluß auf die Bildqualität und die Lebensdauer des Gerätes.

Änderungen der technischen Daten ohne vorherige Ankündigung vorbehalten.

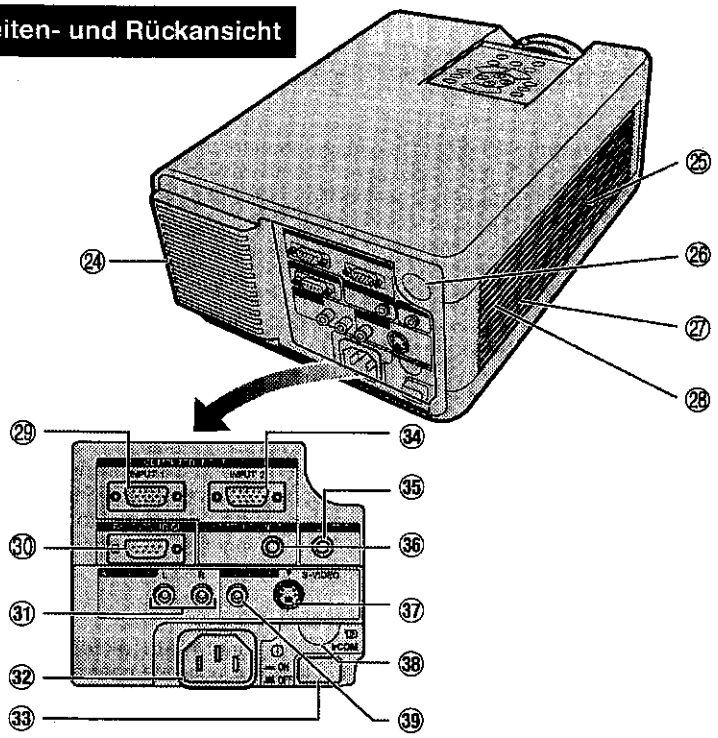
Lage der Bedienelemente

Projektor

Vorderansicht



Seiten- und Rückansicht



① Betriebsanzeige
② Netz-Tasten (ON/OFF)

③ Schwarzbild-Taste (BLACK SCREEN)
④ Eingangs-Taste (INPUT)

⑤ Standbild-Taste (FREEZE)
⑥ Trapezverzeichnungs-Taste (KEYSTONE)
⑦ Einstellungs-Tasten (▲/▼/◄/►)

⑧ Lampenaustausch-Anzeige

⑨ Temperaturwarnanzeige

⑩ Lautstärketasten (VOLUME +/−)
⑪ Stummschaltungs-Taste (MUTE)
⑫ Menü-Taste (MENU)

⑬ IrCOM-Taste
⑭ Auto-Synchron-Taste (AUTO SYNC)
⑮ Vergrößern-Taste (ENLARGE)

⑯ Eingabe-Taste (ENTER)

⑰ Zoom-Knopf
⑱ Fokussier-Knopf
⑲ Fernbedienungs-Sensor
⑳ Luftfilter / Kühlventilator (Lufteinlaß)
㉑ Tragegriff
㉒ Standardanschlußfür Kensington-Sicherheitssperre

㉓ Drehfuß-Feststeller
㉔ Kühlventilator (Luftauslaß)
㉕ Lautsprecher
㉖ Fernbedienungs-Sensor
㉗ Kühlventilator (Lufteinlaß)
㉘ Luftfilter
㉙ Eingangsanschluß 1 (HD-15)

㉚ RS-232C-Anschlußstelle (9-Pin D-Sub)

㉛ Audioeingangsanschlüsse: RCA
㉜ Steckanschluß
㉝ Hauptnetzschalter (MAIN POWER)
㉞ Eingangsanschluß 2 (HD-15)

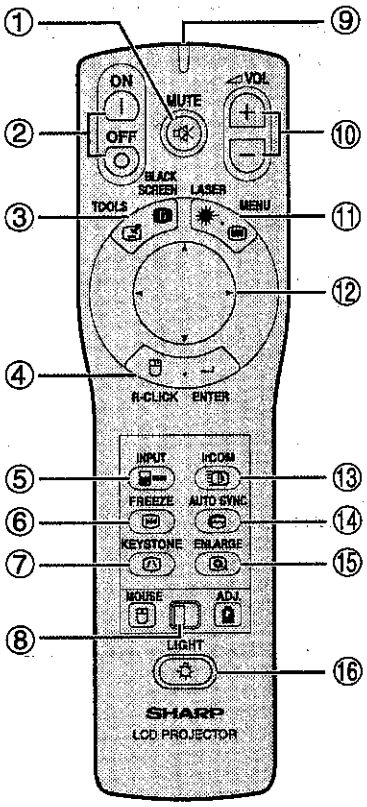
㉟ Audioausgangsanschluß (3,5 mm Stereo-Minibuchse)

㊱ Computer Audioeingangsanschluß (3,5 mm Stereo-Minibuchse)

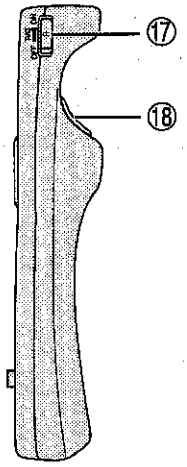
㊲ S-Videoeingangsanschluß: 4-Pin Mini-DIN
㊳ IrCOM-Sensor
㊴ Videoeingangsanschluß: RCA

„Power"-Fernbedienung

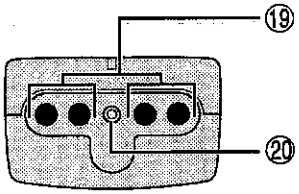
Vorderansicht



Seitenansicht



Ansicht von oben



① Stummschaltungs-Taste (MUTE)
② Netz-Tasten (ON/OFF)
③ Schwarzbild-/Hilfsmittel-Taste (BLACK SCREEN/TOOLS)
④ Rechte Klick-/Eingabe-Taste (R-CLICK/ ENTER)
⑤ Eingangs-Taste (INPUT)
⑥ Standbild-Taste (FREEZE)
⑦ Trapezverzeichnungs-Taste (KEYSTONE)

⑧ Maus/Einstellungs-Schiebeschalter (MOUSE/ADJ.)
⑨ Übertragungs-Anzeige
⑩ Lautstärketasten (VOL +/–)
⑪ Laserzeiger-/Menütaste (LASER/MENU)

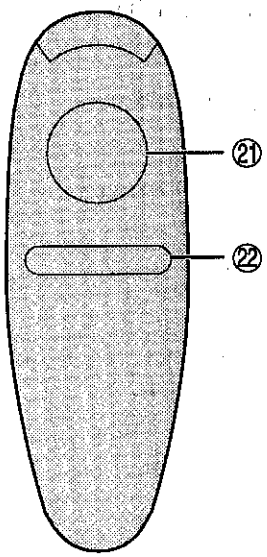
⑫ Maus/Einstellungs-Tasten (▲/▼/◀/▶)

⑬ IrCOM-Taste
⑭ Auto-Synchron-Taste (AUTO SYNC)

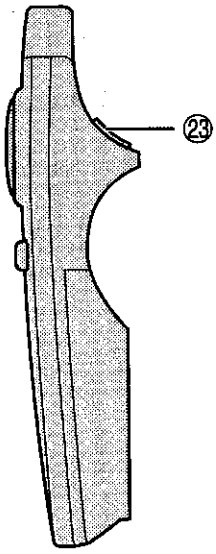
⑮ Vergrößern-Taste (ENLARGE)
⑯ Hinterbeleuchtungs-Taste (LIGHT)
⑰ Hauptnetzschalter
⑱ Linke Klick-(Rückseite-)Taste (L-CLICK/BACK)
⑲ Übertragungs-Anzeige
⑳ Laserlichtfenster
㉑ Maus-Taste
㉒ Rechte Klick-Taste (R-CLICK)
㉓ Linke Klick-Taste (L-CLICK)

Fernbedienung für einfache Präsentationen

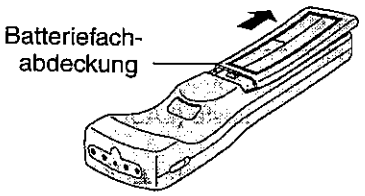
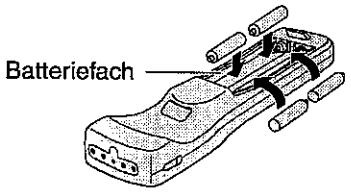
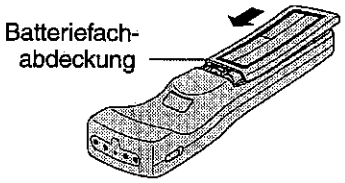
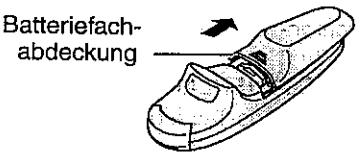
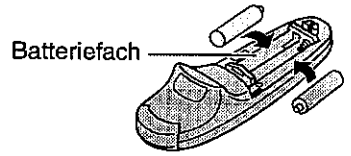
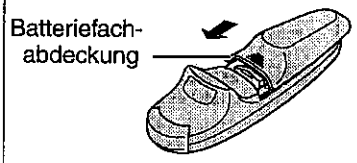
Vorderansicht



Seitenansicht



Einsetzen der Batterien

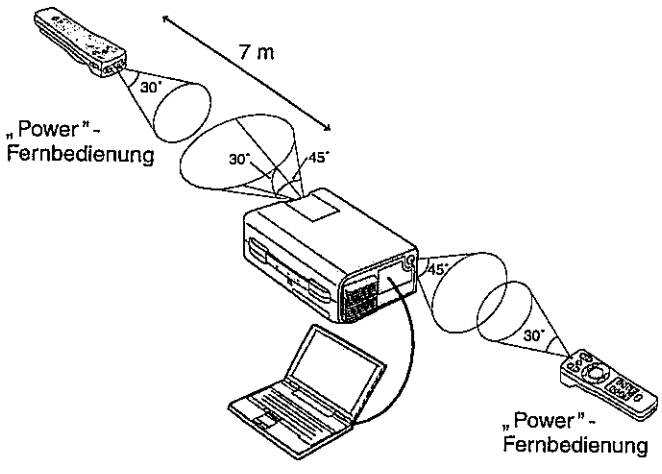
1	2	3
Zum Entfernen der Batteriefachabdeckung auf die Pfeilmarkierung drücken und nach unten schieben.	**Vier Batterien der Größe AA für die „Power"-Fernbedienung und zwei Batterien der Größe AAA für die Fernbedienung für einfache Präsentationen einsetzen und dabei sicherstellen, daß die Pole mit den + und − Markierungen im Batteriefach übereinstimmen.**	**Die seitlichen Vorsprünge der Batteriefachabdeckung in die entsprechenden Schlitze einsetzen und auf die Abdeckung drücken, bis sie richtig aufgeschoben ist.**
		
		

- Die „Power"-Fernbedienung kann zur Steuerung des Projektors in den unten gezeigten Bereichen verwendet werden.
- Der Fernbedienungs-Mausempfänger kann mit der „Power"-Fernbedienung oder der Fernbedienung für einfache Präsentationen in den gezeigten Bereichen zur Steuerung der Mausfunktionen des angeschlossenen Computers verwendet werden.

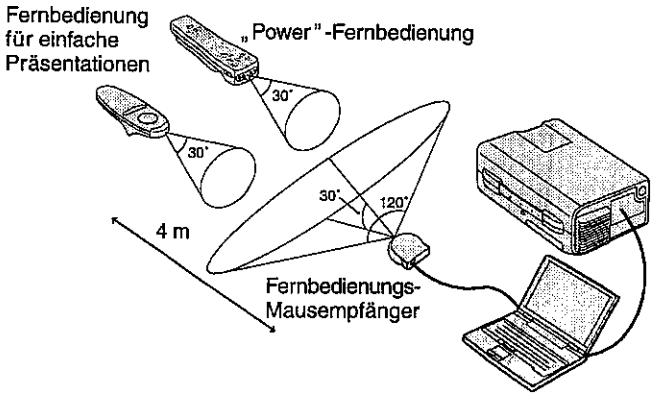
HINWEIS

- Das Signal der Fernbedienung kann für einen einfacheren Betrieb von der Bildwand reflektiert werden. Der wirksame Abstand des Signals kann aufgrund des Materials der Bildwand unterschiedlich sein.

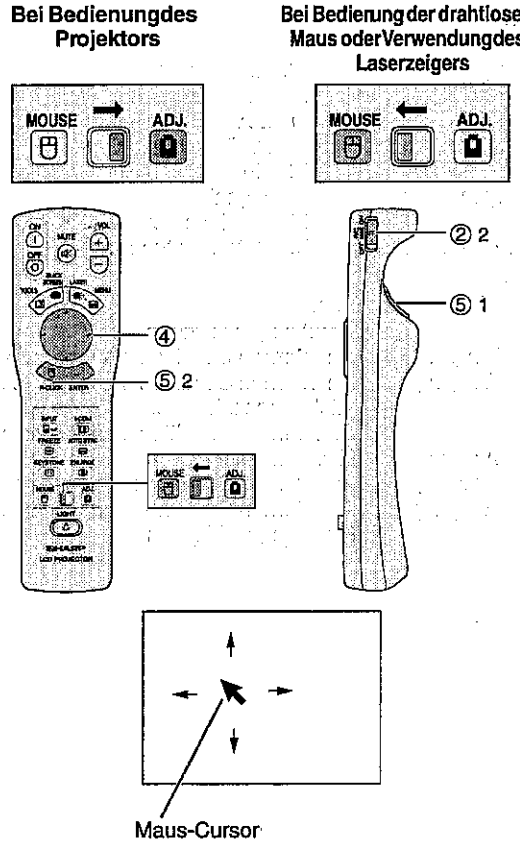
Steuerungdes Projektors



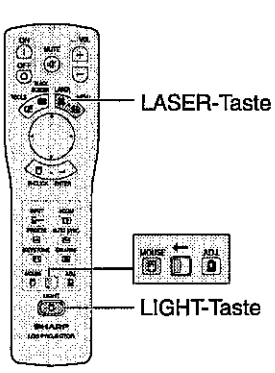
Verwendungder drahtlosenMaus



Betrieb mit der drahtlosen Maus-Fernbedienung



Tastenbezeichnung	Position des MOUSE/ADJ.-Schalters	
	MOUSE ⟷ ADJ.	
LASER/MENU	LASER (GRÜN)	MENU (ROT)
BLACK SCREEN/TOOLS	BLACK SCREEN (GRÜN)	TOOLS (ROT)
R-CLICK/ENTER	R-CLICK (GRÜN)	ENTER (ROT)
▲/▼/◀/▶	Maus (LEUCHTET NICHT)	Einstellung (LEUCHTET NICHT)
L-CLICK/BACK	L-CLICK (LEUCHTET NICHT)	BACK (LEUCHTET NICHT)
ON/OFF	JA (ROT)	
VOL +/−		
MUTE		
INPUT		
IrCOM		
FREEZE		
AUTO SYNC		
KEYSTONE		
ENLARGE		



Die „Power"-Fernbedienung ist mit den folgenden drei Funktionen ausgestattet:
- Bedienung des Projektors
- Bedienung der drahtlosen Maus
- Verwendung des Laserzeigers

Für die Verwendung der Funktion den Einstellungsschalter MOUSE/ADJ. auf die Position MOUSE oder ADJ. schieben.

① Den Projektor an einen Computeranschließen

② Bedienung der drahtlosen Maus

1. Nach der Verbindung des Projektors und des Computers den Projektor zuerst einschalten. Der Computer sollte immer als letztes eingeschaltet werden.
2. Den Hauptnetzschalter der „Power"-Fernbedienung auf die Position ON schieben.

③ Wahl der Betriebsat

Zur Verwendung der „Power"-Fernbedienung als eine drahtlose Maus den Einstellungsschalter **MOUSE/ADJ.** auf die Position MOUSE schieben.

HINWEIS

- Wenn die „Power"-Fernbedienung zum Betrieb des Projektors verwendet werden soll, schieben Sie den Einstellungsschalter MOUSE/ADJ. auf die Position ADJ.
- Die drahtlose Maus oder die RS-232C-Funktion können möglicherweise nicht verwendet werden, wenn der Computer nicht richtig eingestellt wurde. Siehe die Bedienungsanleitung des Computers für Hinweise zur Einstellung bzw. Installation des richtigen Maus-Treibers.

④ Bewegen des Maus-Cursors

▲/▼/◀/▶ auf der „Power"-Fernbedienung zum Bewegen des Maus-Cursors auf der Bildwand drücken.

HINWEIS

- Die mitgelieferte Fernbedienung für einfache Präsentationen kann ebenfalls für den Betrieb der drahtlosen Maus verwendet werden.

⑤ Verwendung der Maus-Tasten für zweitastige Maussysteme

Die drahtlose Maus ist so konfiguriert, daß sie als zweitastige Standard-Maus (Desktop-Maus) verwendet werden kann.

1. **L-CLICK** auf der Rückseite der „Power"-Fernbedienung für die linke Maus-Taste einer Standard-Desktop-Maus verwenden.
2. **R-CLICK** auf der Vorderseite der „Power"-Fernbedienung für die rechte Taste einer Standard-Desktop-Maus verwenden.

HINWEIS

- Für eintastige Systeme kann sowohl **L-CLICK** als auch **R-CLICK** verwendet werden.

Verwendung des Laserzeigers

Den Einstellungsschalter **MOUSE/ADJ.** auf die Position MOUSE schieben und dann **LASER** (✷) zum Aktivieren des Laserzeigers drücken. Beim Loslassen der Taste erlöscht das Licht automatisch.

HINWEIS

- Aus Sicherheitsgründen wird der Laserzeiger automatisch nach einer Minute fortlaufenden Gebrauchs ausgeschaltet. Zum Einschalten erneut **LASER** (✷) drücken.

Verwendung der „Power"-Fernbedienung in einem dunklen Raum

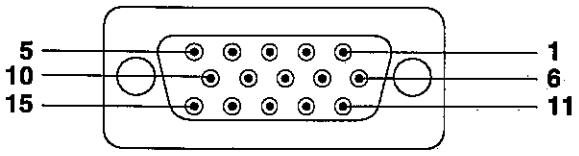
Die „Power"-Fernbedienung ist mit einer Hinterbeleuchtungs-Funktion ausgestattet. Wenn **LIGHT** gedrückt wird, leuchten die Tasten der Fernbedienung auf. Das grün beleuchteten Tasten sind für den Maus-Betrieb und die rot beleuchteten für Projektor-Einstellungen vorgesehen.

HINWEIS

- Wenn der Hauptnetzschalter auf der „Power"-Fernbedienung länger als 10 Minuten ohne einen Bedienvorgang eingeschaltet bleibt, wird die Fernbedienung automatisch ausgeschaltet. Zum erneuten Einschalten eine Taste auf der Fernbedienung länger als eine Sekunde drücken.

Pinbelegung

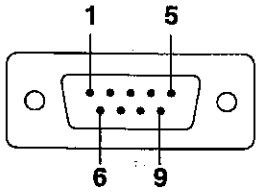
Analoger Computer-Signaleingang 1 und 2: 15-Pin Mini-D-Sub-Buchse



Computereingang
Analog

1. Videoeingang (rot)
2. Videoeingang (Grün/Sync. auf Grün)
3. Videoeingang (blau)
4. Reserveeingang 1
5. Gemischtes Sync.-Signal
6. Erdung (rot)
7. Erdung (Grün/Sync. auf Grün)
8. Erdung (blau)
9. Nicht belegt
10. MASSE
11. MASSE
12. Bi-direktionale Daten
13. Horizontales Sync.-Signal
14. Vertikales Sync.-Signal
15. Daten-Zeitgeber

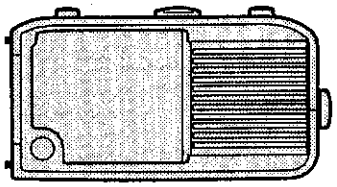
RS-232C-Anschlußstelle: 9-Pin D-Sub-Buchse



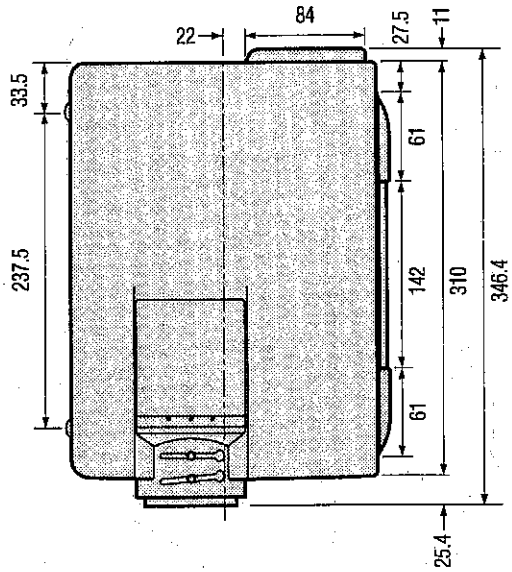
Pin Nr.	Signal	Name	E/A	Referenz
1	CD			Nicht angeschlossen
2	RD	Daten empfangen	Eingang	An internen Schaltkreis angeschlossen
3	SD	Daten senden	Ausgang	An internen Schaltkreis angeschlossen
4	ER			Nicht angeschlossen
5	SG	Signalerdung		An internen Schaltkreis angeschlossen
6	DR	Datensatz bereit	Ausgang	Nicht angeschlossen
7	RS	Anforderung zum Senden	Ausgang	An internen Schaltkreis angeschlossen
8	CS	Bereit zum Senden	Eingang	An internen Schaltkreis angeschlossen
9	CI			Nicht angeschlossen

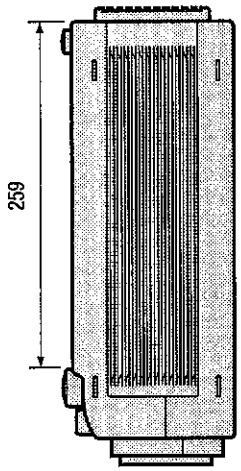
Abmessungen

Ansicht der Rückseite

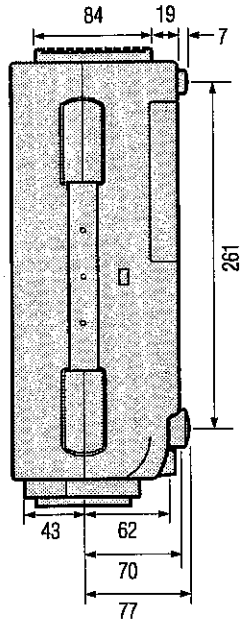


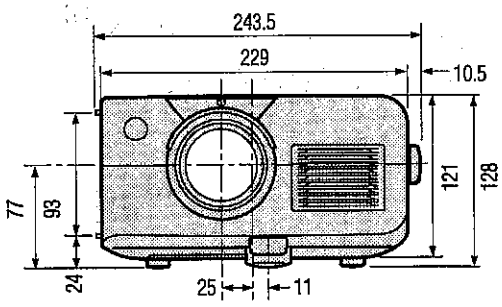
Ansicht von oben



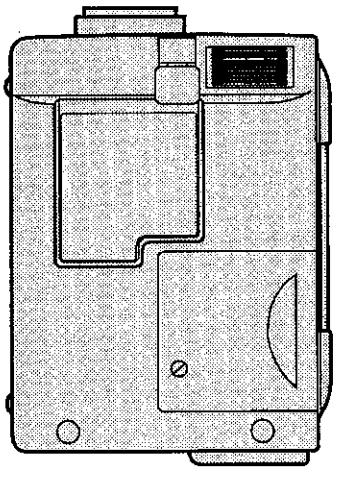


Seitenansicht





Ansicht von vorne



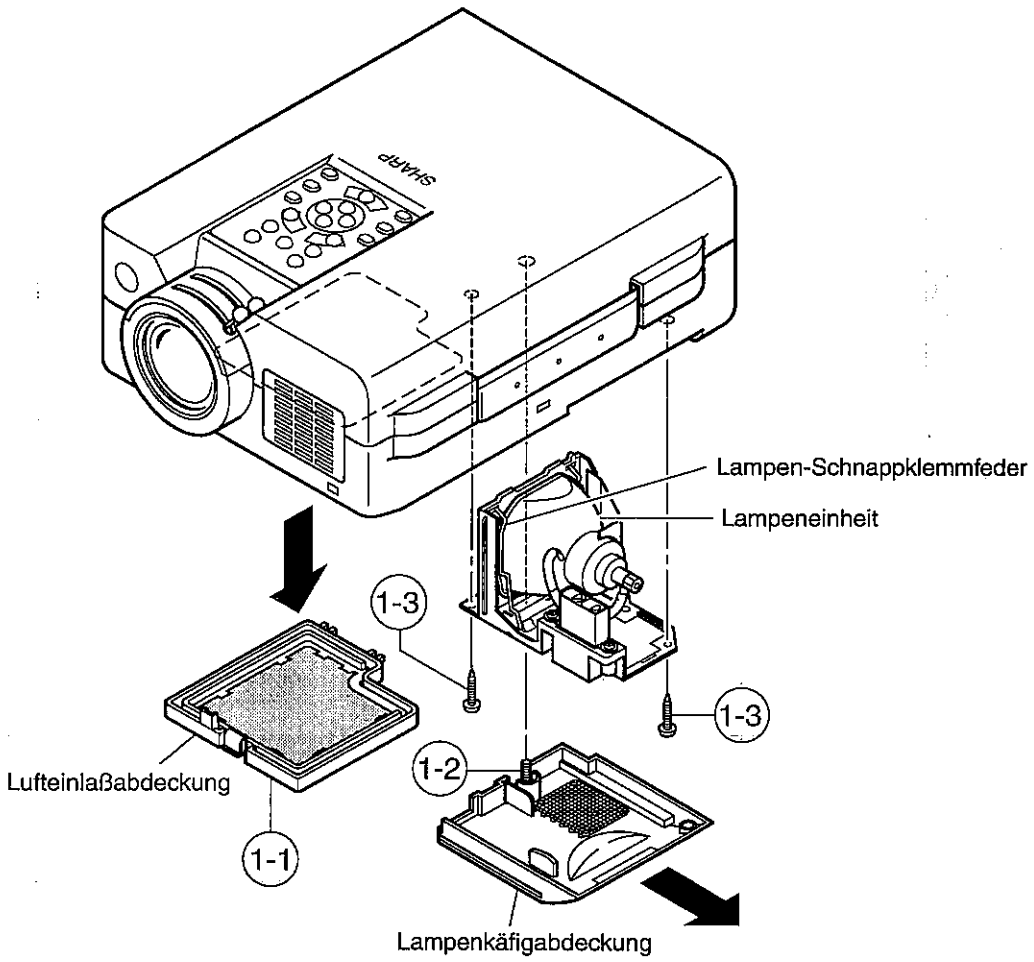
Ansicht von unten

Einheit: mm

ENTFERNEN DER HAUPTTEILE

1. Entfernen der Lufteinlaßabdeckung und der Lampeneinheit

1-1. Die Lufteinlaßabdeckung abnehmen.
1-2. Die Schraube der Lampenkäfigabdeckung losdrehen und dann die Lampenkäfigabdeckung in Pfeilrichtung (zum Körper) herausziehen.
1-3. Die beiden Sicherungsschrauben der Lampeneinheit losdrehen und die Lampeneinheit abnehmen.

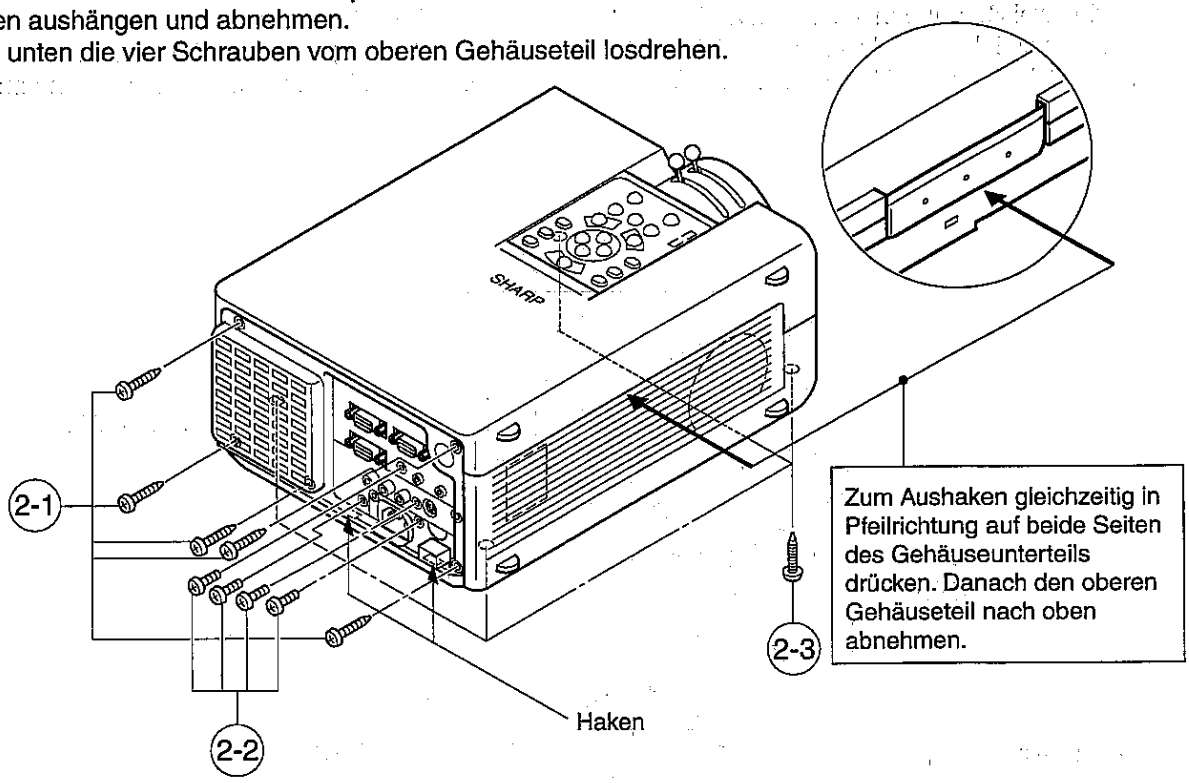


Hinweis:

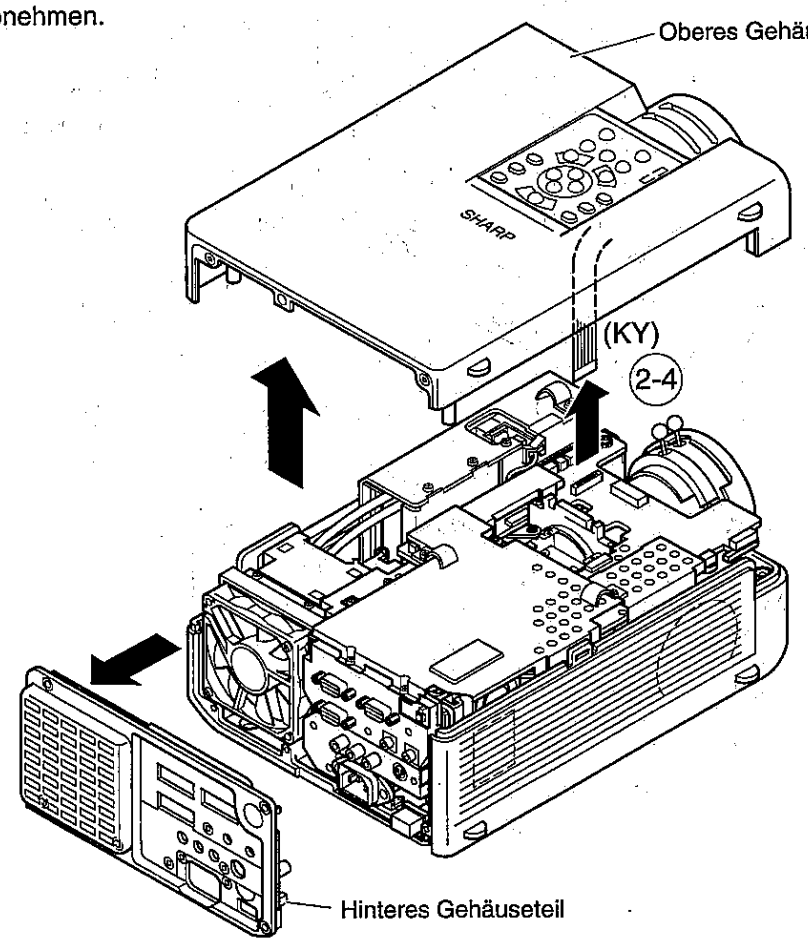
Beim Lampenaustausch sicherstellen, daß der Anschluß und die Schnappklemmfeder (sowie die anderen Metallteile) der Lampe mehr als 8 mm Abstand voneinander haben.

2. Entfernen des oberen und hinteren Gehäuseteils

2-1. Die fünf Schrauben vom hinteren Gehäuseteil losdrehen.
2-2. Die vier Schrauben der Anschlußplatte vom hinteren Gehäuseteil losdrehen. Das hintere Gehäuseteil von unten aushängen und abnehmen.
2-3. Von unten die vier Schrauben vom oberen Gehäuseteil losdrehen.

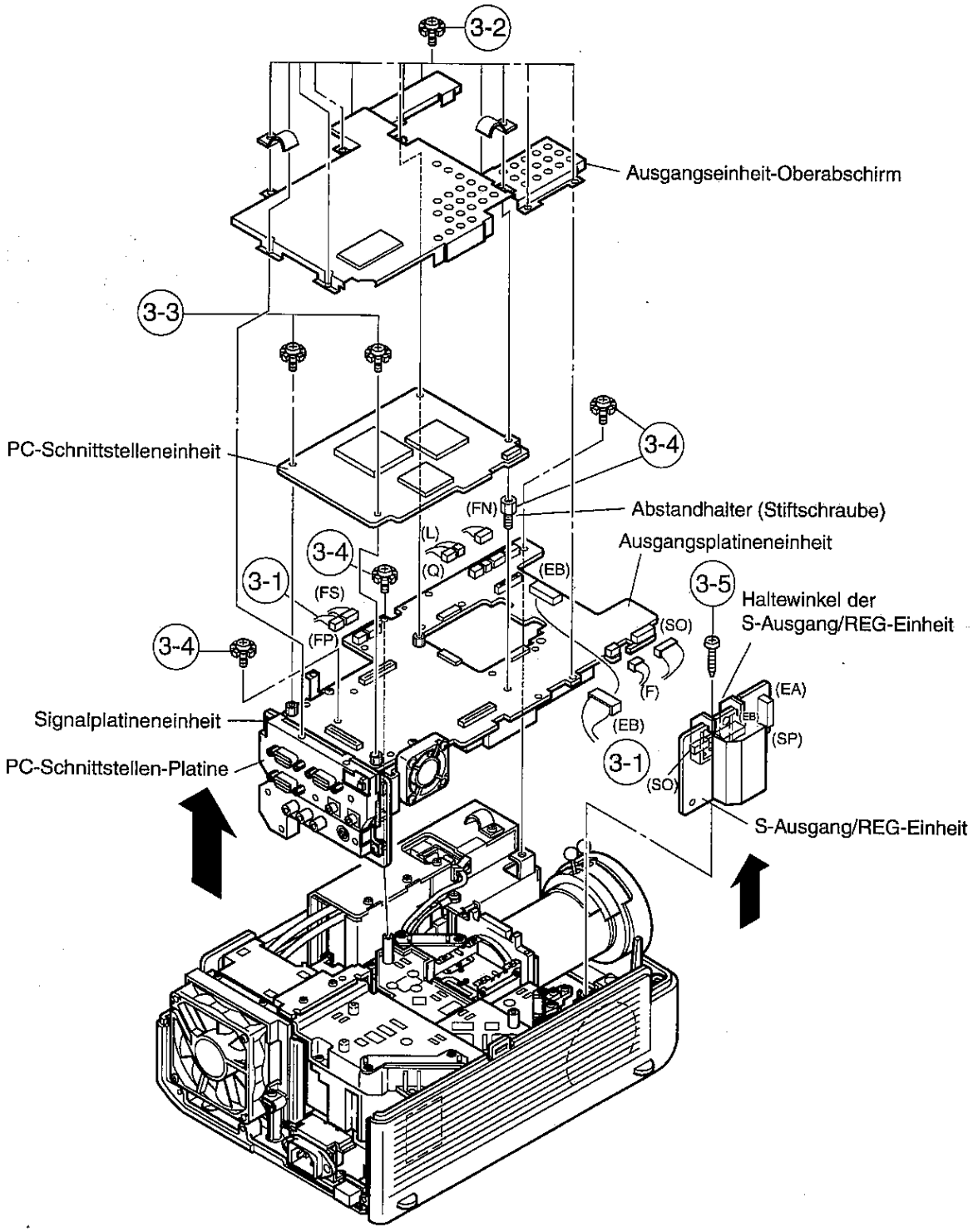


2-4. Das obere Gehäuseteil langsam anheben und den Platinen-Netzschalterstecker (KY) abziehen und schließlich das Oberteil abnehmen.



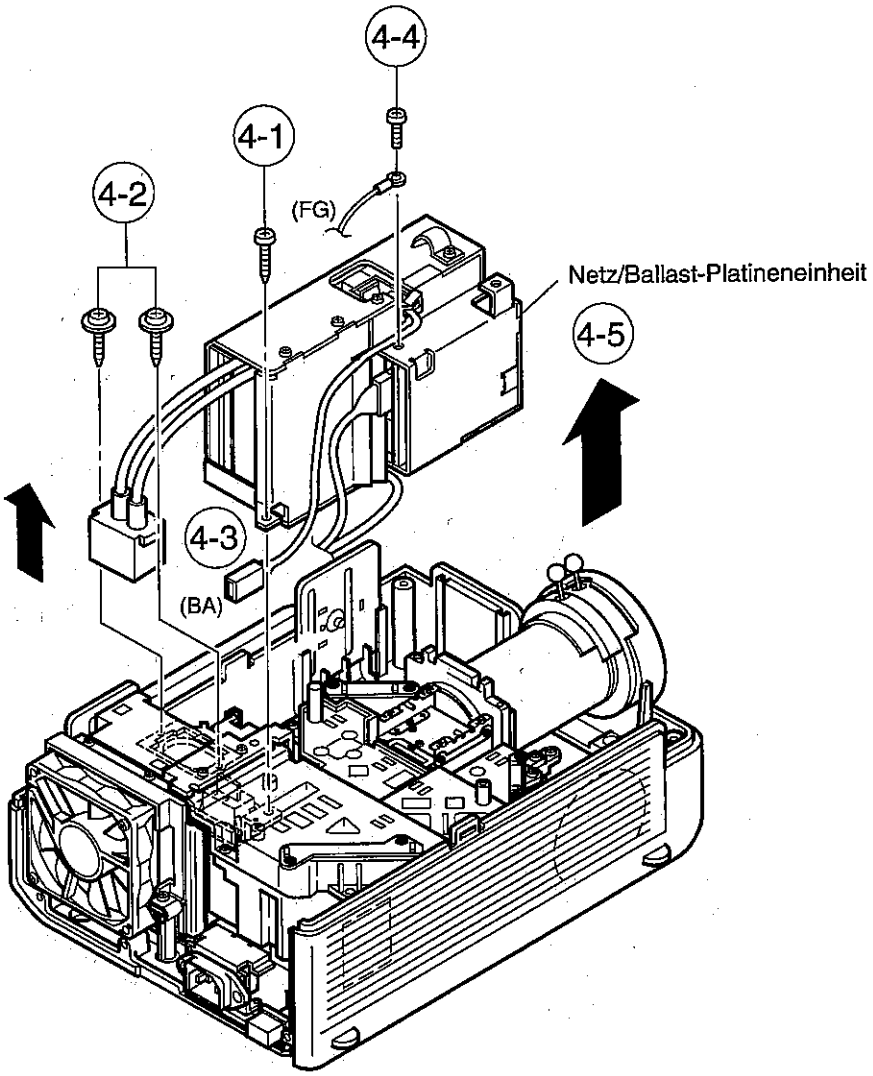
3. Entfernen der Platinen

3-1. Die Anschlußstecker abziehen.
3-2. Die zwölf Schrauben losdrehen und die Ausgangseinheit-Oberabschirm abnehmen.
3-3. Die zwei Schrauben losdrehen und die PC-Schnittstelleninheit abnehmen.
3-4. Die zwei Schrauben losdrehen und die Distanzscheibe(Stiftschraube) abziehen. Die Einheit nach obenentfernen.
3-5. Die Schraube des Haltewinkels der S-Ausgang/REG-Einheit losdrehen und die Einheit abnehmen.



4. Entfernen der Netz/Ballast-Platineneinheit

4-1. Die Schraube der Netz/Ballast-Platineneinheit losdrehen.
4-2. Die beiden Schrauben des Lampenfassungshalters losdrehen und den Halter abnehmen.
4-3. Den Stecker (BA) von der Ballast-Platineneinheit abziehen.
4-4. Die Schraube des Anschlußdrahts (FG) losdrehen.
4-5. Die Netz/Ballast-Platineneinheit anheben und herausziehen.



5. Entfernen der Optik-Mechanismuseinheit

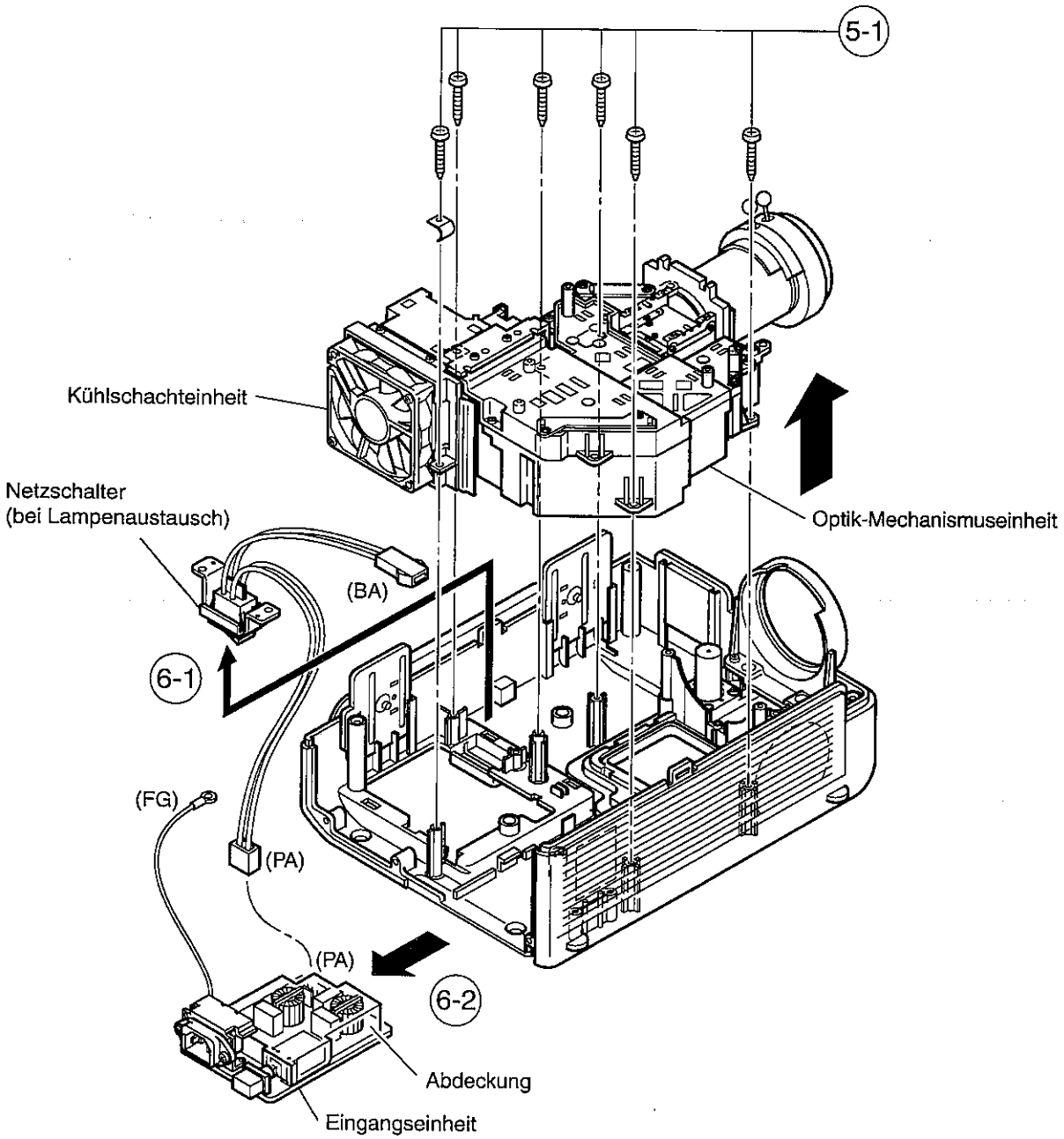
5-1. Die sechs Schrauben der Optik-Mechanismuseinheit losdrehen und dann die Einheit herausnehmen.

6. Entfernen der Ballast-Platineneinheit und der Eingangseinheit

6-1. Den Stecker (PA) von der Eingangseinheit abziehen und den Netzschalter herausnehmen.

6-2. Die Eingangseinheit zum Körper herausziehen.

Hinweis: Vor dem Einbau der Lampenkäfigabdeckung sicherstellen, daß der Netzschalter in Position " ○ " (AUS) ist.

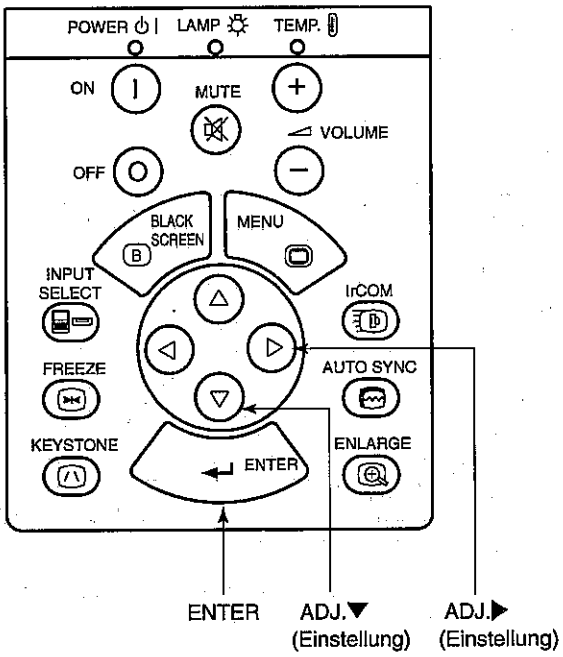


NULLSTELLUNG DES LAMPEN-BETRIEBSSTUNDENZÄHLERS (GESAMTZEIT)

Nachdem die Lampe ausgewechselt wurde, ist die aufgelaufene Gesamtzeit des Lampen-Betriebsstundenzählers in folgenden Schritten nullzustellen.

Nullstellungsverfahren

1. Während die Tasten "ENTER", "ADJ.▼" und "ADJ.▶" gleichzeitig gedrückt gehalten werden, den Hauptgeräteschalter aktivieren (befindet sich über dem Netzeingang).
2. Der Wert des Lampen-Betriebsstundenzählers ist nun auf Null zurückgestellt. "000H" erscheint auf dem Bildschirm.



Lampe

Die Lampe dieses Projektors kann abhängig von der Betriebsumgebung etwa 1.500 Stunden verwendet werden. Es wird empfohlen, die Lampe nach 1.400 Betriebsstunden oder wenn eine sichtbare Verschlechterung der Bild- und Farbqualität auftritt, auszutauschen. In diesem Fall bringen Sie den Projektor zum nächsten von Sharp autorisierten Händler für LCD-Projektoren oder zu einer Kundendienststelle, um die Lampe austauschen zu lassen.

⚠VORSICHT

- Gefährliche Lichtstrahlen. Niemals beim Betrieb des Projektors in die Öffnung oder das Objektiv schauen.

HINWEIS

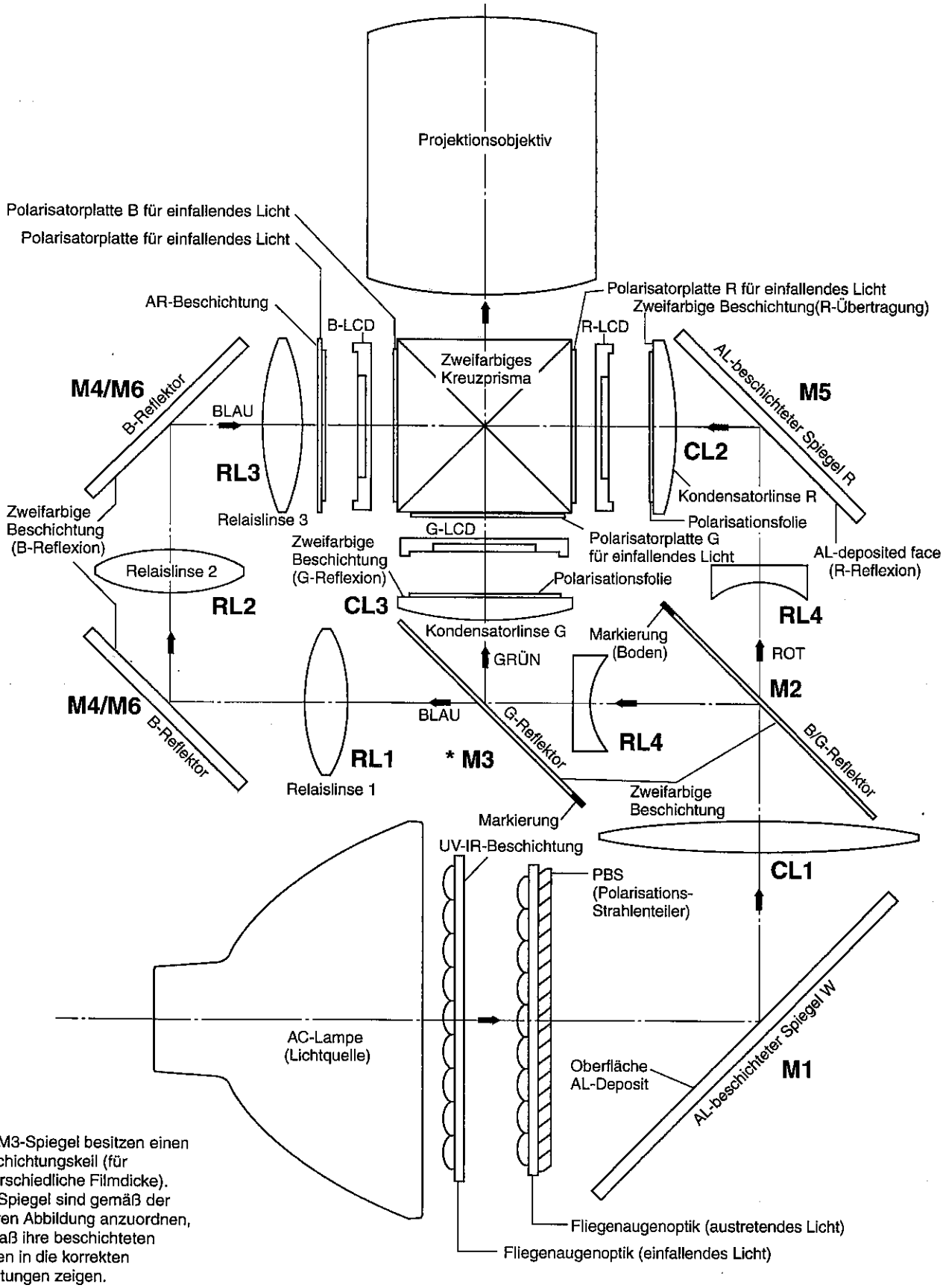
- Die Verwendungszeit der Lampe kann mit den Anzeigen auf der Bildwand überprüft werden.
- Wenn die Betriebsumgebung große Unterschiede aufweist, kann die Verwendungdauer der Lampe weniger als 1.500 Stunden betragen.

Symptom	Problem	Abhilfe
Die Lampenaustausch-Anzeige leuchtet rot auf und „LAMP." und „■" blinken gelb in der unteren linken Ecke der Bildwand.	• Die Lampe wurde über 1.400 Stunden verwendet.	• Bitte bringen Sie den Projektor zum nächsten von Sharp autorisierten Händler für LCD-Projektoren oder zu einer Kundendienststelle, um die Lampe austauschen zu lassen.
Eine sichtbare Verschlechterung der Bild- und Farbqualität tritt auf.		
Das Gerät wird automatisch ausgeschaltet und der Projektor auf Betriebsbereitschaft geschaltet.	• Die Lampe wurde über 1.500 Stunden verwendet.	
„LAMP." und „■" blinken rot in der unteren linken Ecke der Bildwand und das Ger ät wird automatisch ausgeschaltet.		

ÜBERSICHT DER OPTIKEINHEIT

Übersicht des optischen Systems

Hinweis: Anordnung der Bauteile im optischen System



* Die M3-Spiegel besitzen einen Beschichtungskeil (für unterschiedliche Filmdicke). Die Spiegel sind gemäß der oberen Abbildung anzuordnen, so daß ihre beschichteten Seiten in die korrekten Richtungen zeigen.

EINSTELLUNG VON KONVERGENZ UND BRENNPUNKT

- **Bei eingeschaltetem Gerät und entferntem oberen Gehäuseteil mit der Konvergenz- und Brennpunkteinstellung beginnen. Die Bildeinstellung erfolgt mit der Fernbedienung. Es sind die folgenden Bedienschritte auszuführen:**

1. Fokussieren des Projektionsobjektivs

(A) Auswechseln aller 3 Flüssigkristallanzeigen (LCD)

1. Vor dem Auswechseln aller 3 Flüssigkristallanzeigen ist ein Bild auf die Leinwand zu projizieren und scharf einzustellen.
2. Die Flüssigkristallanzeigen durch neue ersetzen. Solange der Brennpunkt jedoch nicht vollständig eingestellt ist, sicherstellen, daß der Abstand zwischen dem Projektor und der Leinwand nicht verändert wird. Der Fokussierring des Projektionsobjektivs und der Zoomring dürfen ebenfalls nicht verändert werden.

Hinweis:

Wenn der Fokussierring mit einem unterschiedlichen Positionsverhältnis nachgestellt wird, wird das Verhältnis zwischen der Projektionsdistanz und der Leinwandgröße beeinflußt. Mit anderen Worten gesagt, kann ein Kurzdistanz-Bild (z.B. 40 mm Weitwinkel) außerhalb des Fokusbereichs liegen, während eine Zoomaufnahme (z.B. 300 Teleobjektiv) ebenfalls außerhalb des zulässigen Bereichs liegt.

(B) Auswechseln von nur 1 oder 2 Anzeigen

1. Wenn nach dem Auswechseln von einer oder zwei LCD-Anzeigen eine Brennpunkteinstellung vorgenommen wird, ein Bild auf die Leinwand projizieren, dann Fokussierring verstellen, um die nicht ausgewechselte LCD-Anzeige in den Brennpunkt zu bringen.
2. Solange der Brennpunkt für beide neuen LCD-Anzeigen jedoch noch nicht vollständig abgeschlossen ist, unbedingt darauf achten, daß der Abstand zwischen dem Gerät und der Leinwand nicht verändert wird. Der Fokussierring des Projektionsobjektivs und der Zoomring dürfen ebenfalls nicht verändert werden.
3. Wenn die Projektionsdistanz geändert oder das Projektionsobjektiv verstellt worden ist, sind die obigen Schritte 1 und 2 zu wiederholen.

2. Brennpunkteinstellung

(A) Einstellen der G-LCD-Anzeige (Diese Einstellung nur auf weißer Leinwand vornehmen.)

1. Einstellung in θ X- und Z-Richtung
   Die Sicherungsschraube "a" lockern und einen exzentrischen Schraubendreher in die Kerbe und Bohrung "a" einführen. Den Schraubendreher so lange drehen, bis sich die obere Hälfte, die Mitte und die untere Hälfte der Leinwand im Brennpunkt befinden. Bei dieser Brennpunkteinstellung von oben nach unten die Sicherungsschrauben "b" und "c" anziehen, um die θ Y-Richtung zu fixieren.
   Zunächst die linke und rechte Hälfte ausbalancieren und dann die Genauigkeit während der folgenden Einstellung 2 verbessern.
2. Einstellung in θ Y-Richtung
   Die Sicherungsschraube "a" vorübergehend festziehen und die Sicherungsschrauben "b" und "c" lockern. Den exzentrischen Schraubendreher in die Kerbe und Bohrung "c" einführen, um die Einstellung in θ Y-Richtung auf der oberen Leinwandhälfte auszuführen. Den exzentrischen Schraubendreher in die Kerbe und Bohrung "b" einführen, um die Einstellung in θ Y-Richtung auf der unteren Leinwandhälfte auszuführen.
3. Die obigen Schritte 1 und 2 wiederholen, um den Brennpunkt feineinzustellen. Schließlich sämtliche Sicherungsschrauben gut festziehen.

Hinweis:

① Mit der Brennpunkteinstellung vorsichtig voranschreiten, da die Einstellpositionen in gegenseitigem Bezug zueinander stehen.

② Bei der Einstellung der Konvergenz und des Brennpunkts darauf achten, daß das Zoomobjektiv und die Einstellringe bis zur Beendigung aller Einstellungen nicht verstellt werden.

(B) Einstellung der B-LCD-Anzeige (ebenso bei der R-LCD-Anzeige)

1. Das gleiche Verfahren wie bei der Brennpunkteinstellung der G-LCD-Anzeige vornehmen. Es wird darauf hingewiesen, daß der Einstellbereich in Z-Richtung klein ist. Sollten die Konvergenzwerte zwischen der B-LCD-Anzeige und der G-LCD-Anzeige zu unterschiedlich sein, die Konvergenz zuerst grobeinstellen und dann die Brennpunkteinstellung vornehmen.

3. Einstellung der Konvergenz

- Für diese Einstellung ist ein Kreuzschraffier-Muster zu benutzen.
  Die Einstellung ist ausschließlich für die G-Farbe und die zutreffende Farbe.

1. Die Konvergenz-Sicherungsschraube "d" lockern.
2. Einstellung in Y- und q Z-Richtung
   Den Innensechskantschlüssel im Y- und q Z-Richtung-Einstellbereich einsetzen.
3. Einstellung in X-Richtung
   Einen Einstellschlüssel mit Exzenternocken in den X-Richtung-Einstellbereich einsetzen.
4. Mit der G-LCD-Anzeige als Referenz die R-LCD- und die B-LCD-Anzeige einstellen.
5. Zum Schluß die Konvergenz-Sicherungsschraube "d" sicher festziehen.

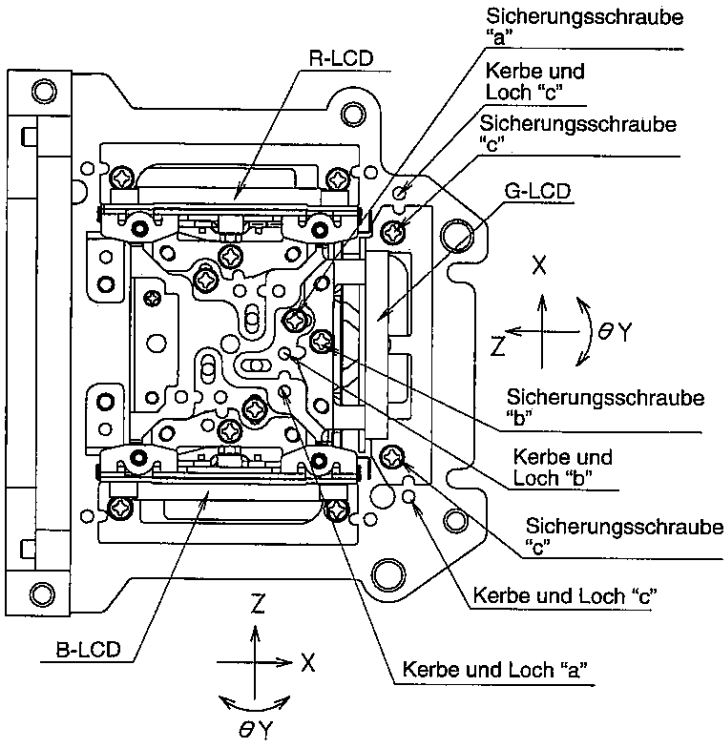
Hinweis:

① Der exzentrische Nocken wird für die Einstellung der Konvergenz benutzt. Das bedeutet daß sich der Nocken dreht und die Linearbewegung nicht immer gleichmäßig verläuft.

② Dieses Modell ist nicht mit einem LCD-Bildeinstellmechanismus ausgerüstst. Der Grund liegt in der Benutzung des zweifarbigen Prismas für die Bildformierung. Wenn alle LCD-Anzeigen optimal fokussiert sind, sind die Bilder fast vollständig konvergiert.

Konvergenz- und Brennpunkt-Einstellmechanismus

DRAUFSICHT



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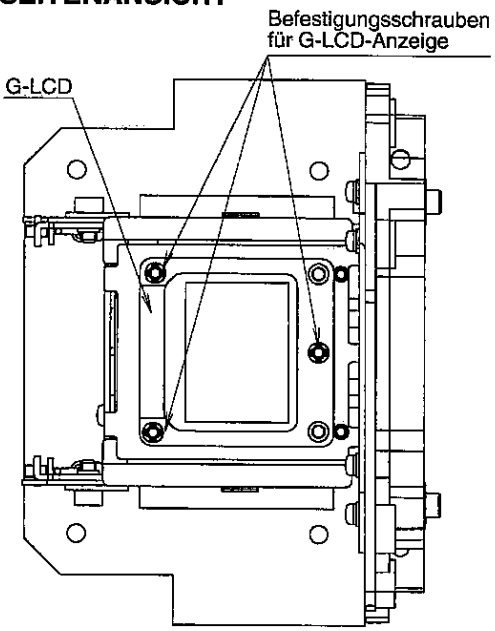

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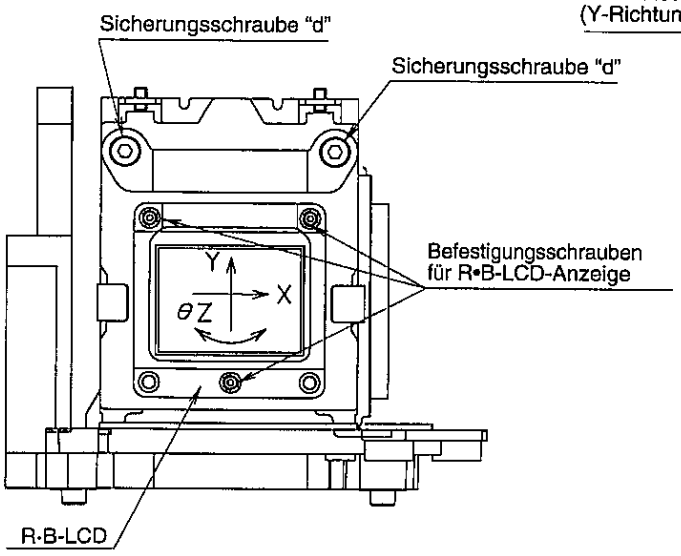

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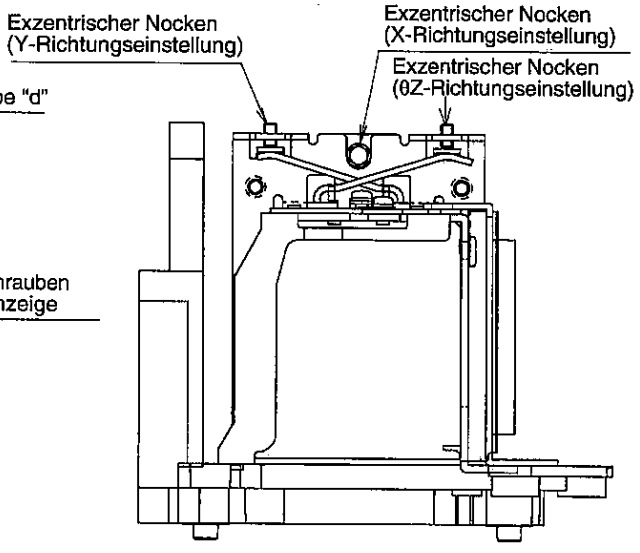


Konvergenz- und Brennpunkteinstellungen auf einen Blick

Einstellrichtungen

Einstellung	Richtung	Definition	Richtung der LCD-Anzeige
Konvergenz	X-Richtung		LCD rechts und links
	Y-Richtung		LCD oben und unten
	θZ-Richtung	Drehung um die Z-Achse	LCD-Drehachse
Brennpunkt	Z-Richtung		LCD, optische Achse
	θX-Richtung	Drehung um die X-Achse	LCD, oben bis unten (flattert)
	θY-Richtung	Drehung um die Y-Achse	LCD, rechts bis links (flattert)

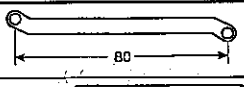
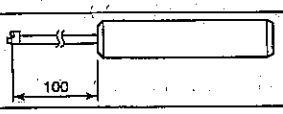
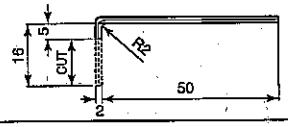
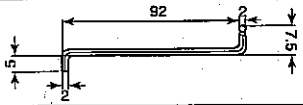
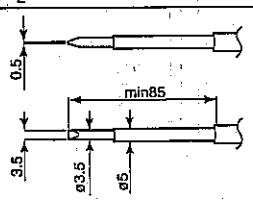
Konvergenz- und Brennpunkteinstellung für den Optikmechanismus

Farbe	Einstellung	Richtung	Bewegung	Position	Einstellwerkzeug	Sicherungsschraube	Festziehwerkzeug
R/B -Farben	Konvergenz	X-Richtung	±0.8mm	Exzentrischer Nocken	Einstellschlüssel für exzentrischen Nocken	d	Innensechskantschlüssel
		Y-Richtung	±0.8mm	Exzentrischer Nocken	Einstellschlüssel für exzentrischen Nocken	d	Innensechskantschlüssel
		θZ-Richtung	±1°	Exzentrischer Nocken	Einstellschlüssel für exzentrischen Nocken	d	Innensechskantschlüssel
	Brennpunkt	Z-Richtung	±0.8mm	Kerbe und Loch "a" und "c"	Exzentrischer Schraubendreher	a, c	Kreuzschlitz -Schraubendreher *Innensechskantschlüssel
		θX-Richtung	±1°	Kerbe und Loch "a" und "c"	Flachkopf-Schraubendreher	a, c	
		θY-Richtung	±1°	Kerbe und Loch "b" und "c"		b, c	
G-Farbe	Brennpunkt	Z-Richtung	±0.2mm	Gleich wie für R- und B-Farben			
		θX-Richtung	±1°				
		θY-Richtung	±1°				

Brennpunkteinstellung in die andere Richtung

Sicherungsschraube	Position	Zugehörige Richtung
a	Kerbe und Loch "a"	Richtungen Z und θX
b	Kerbe und Loch "b"	θY-Richtung
c	Kerbe und Loch "c"	Richtungen Z, θX und θY

Konvergenz- und Brennpunkteinstellung sowie Festziehwerkzeuge

Werkzeug	Spezifisch oder allgemein	Werkzeugcode	Konfiguration
Exzentrischer Nockeneinstellschlüssel	spezifisch	9DASPN-XGNV1U	
Exzentrischer Schraubendreher	spezifisch	9DADRiVER-NV4U	
Innensechskantschlüssel	allgemein (verändert)	9EQLNC-XGNV1U	
		9EQLNC-XGNV4U	
Flachkopf-Schraubendreher	allgemein	9EQDRiVER-NV1B	
Kreuzschlitz-Schraubendreher	allgemein	—	Für Linsenrundkopfschraube M2.6
*Innensechskantschlüssel	allgemein	—	1,27 mm, vorzugsweise einen Schraubendreher von mindestens 70 mm Länge (einschließlich Heft) verwenden.

Austausch der Flüssigkristallanzeigen (LCDs)

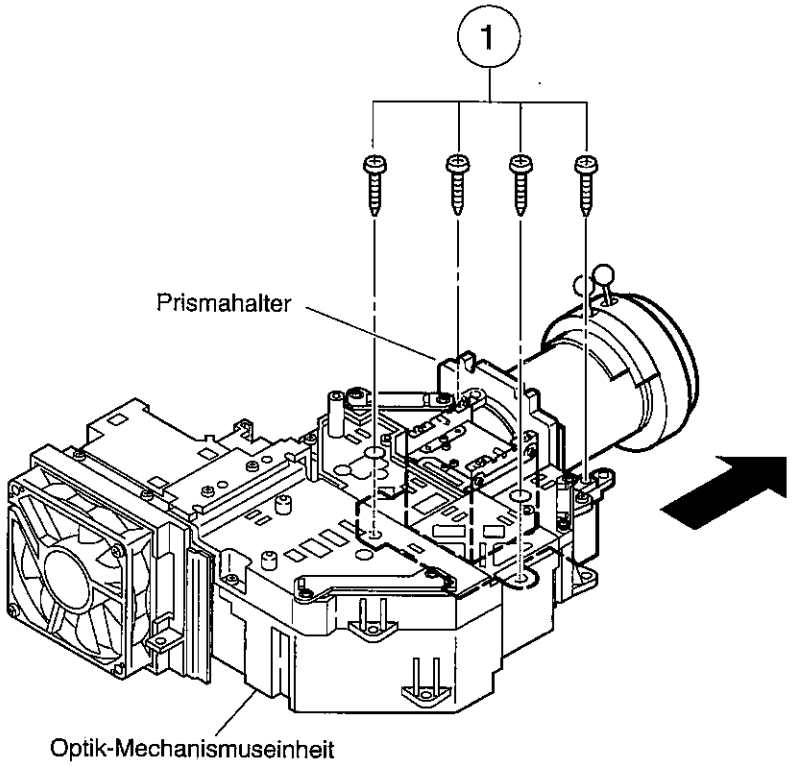
Nach Ausbau des oberen Gehäuseteils und der Optik-Mechanismuseinheit:

(1) Die vier Sicherungsschrauben des Prismahalters losdrehen und den Prismahalter von der Optik-Mechanismuseinheit trennen.

(2) Die Sicherungsschrauben der LCD-Anzeigen losdrehen (jeweils drei bei R-, G- und B-LCD-Anzeige). Danach die LCD-Anzeigen vom Prismahalter abnehmen.

(3) Die neue LCD-Anzeige in umgekehrter obiger Reihenfolge (1) und (2) wieder anbringen.

* Konvergenz und Brennpunkt einstellen. Es ist zu beachten, daß die G-LCD-Anzeige keine Konvergenzeinstellung erfordert und einen kleinen Einstellbereich in Z-Richtung aufweist.



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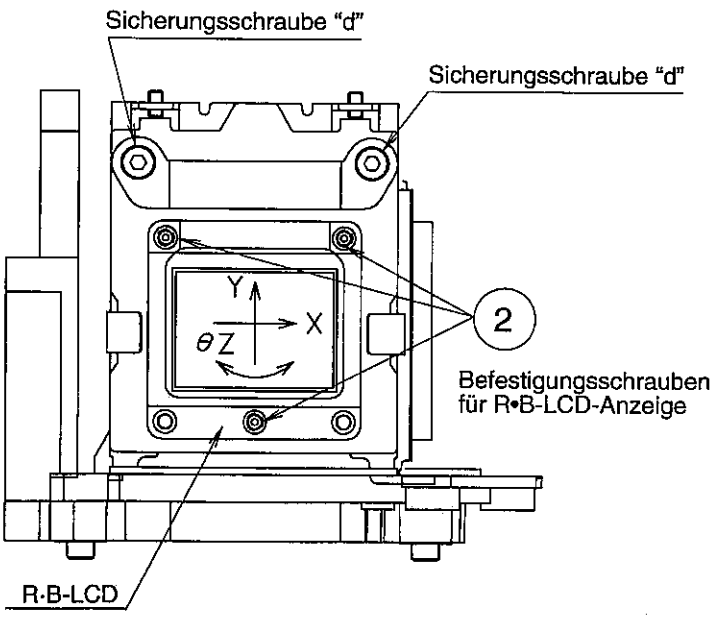

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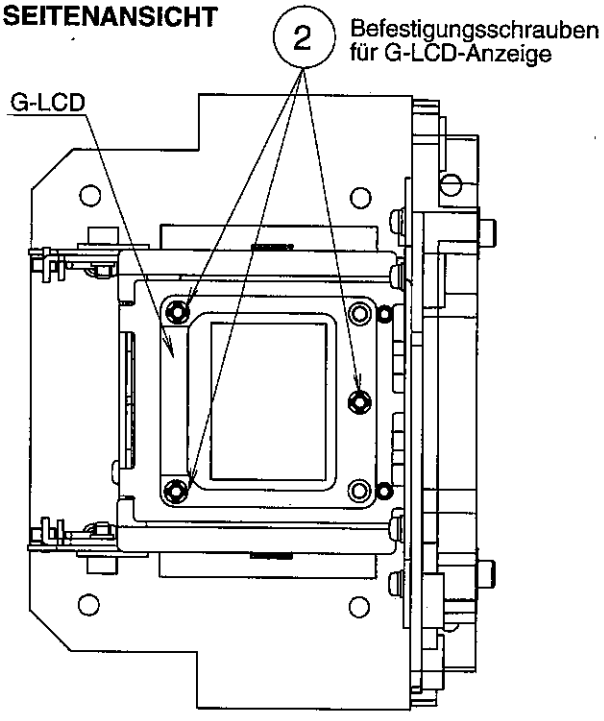
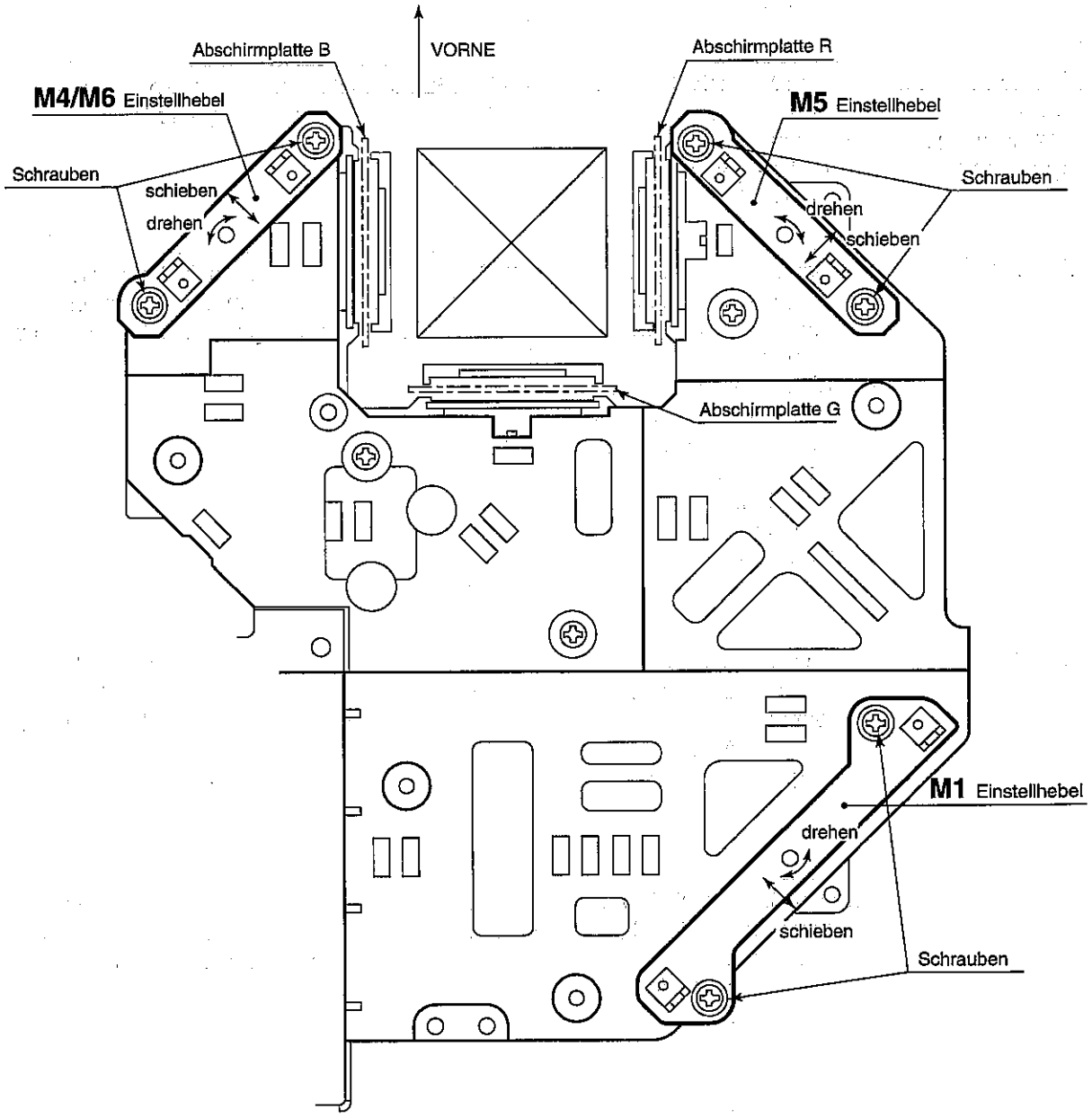


Einstellung der optischen Achse der Spiegel (M1, M5 und M4/M6)

Die optische Achse muß nachjustiert werden, wenn mit den R-, G- oder B-Spiegeln eine Verdunkelung auftritt. Im allgemeinen wird diese Einstellung erforderlich, wenn irgendeine zur Optik zählende Komponente ausgewechselt wird.

Erforderliches Einstellverfahren, wenn eine der Platten ausgewechselt oder die Konvergenz eingestellt wurde:

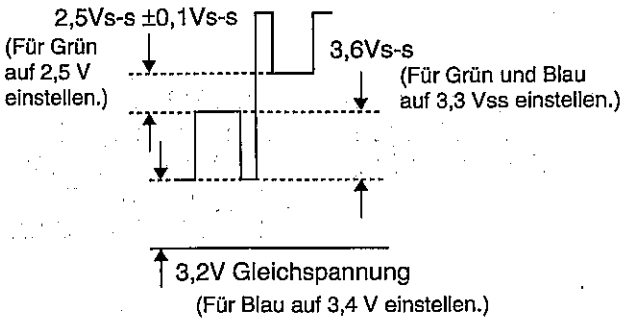
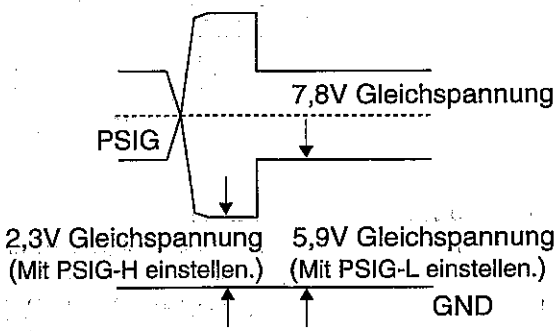
(1) Die Flachkabel von allen LCD-Tafeln abziehen.
(2) Die Lampe einschalten.
(3) Um den G-Spiegel einzustellen, sind die R- und B-Spiegel mit Abschirmplatten abzudecken. (Um das Licht zu blockieren, kann eine Visitenkarte oder etwas ähnliches verwendet werden.)
(4) Die Schraube des M1-Einstellhebels lockern.
(5) Das G-Bild am Bildschirm betrachten und den M1-Einstellhebel soweit verschieben, bis die Abdunkelung am Bildschirm verschwindet. Danach die Schraube wieder festziehen.
(6) Um den R-Spiegel einzustellen, sind die G- und B-Spiegel mit Abschirmplatten abzudecken und der M5-Einstellhebel einzustellen. Für den B-Spiegel sind die R- und G-Spiegel mit dem M6-Einstellhebel einzustellen. (Die obigen Schritte 4 und 5 durchführen.)
(7) Alle Abschirmplatten entfernen, die weiß sind. Sicherstellen, daß keine Verdunkelung vorherrscht.

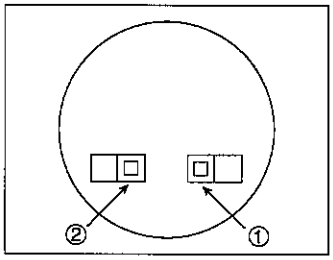
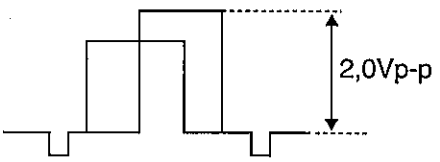


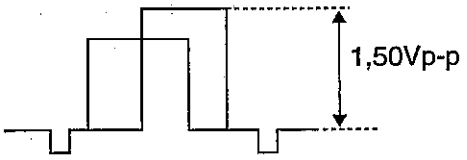
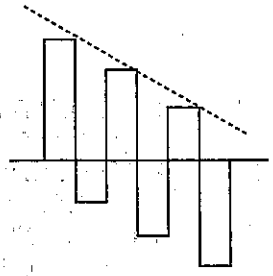
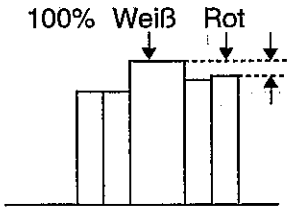
ELEKTRISCHE EINSTELLUNG

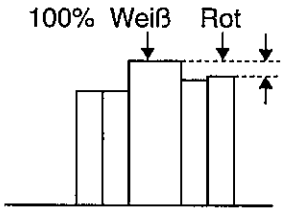
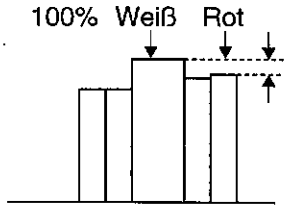
Einen Signalgenerator, PC oder Macintosh-Computer am Projektor anschließen, um die in den Einstellbedingungen spezifizierten Signale zuzuführen.

Nr.	Einstellposition	Einstellbedingung	Einstellverfahren
1	**EEPROM-Initialisierung**	1. Den Netzschalter einschalten und das Gerät für ca. 15 Minuten vorwärmen lassen. (Sicherstellen, daß die Kontrollampe aufleuchtet.)	• Folgende Einstellungen vornehmen: S5001 drücken, um den Verarbeitungsmodus abzurufen, und um S2 im SSS-Menü auszuführen. Das System ist nun initialisiert (PC-Platine nicht miteingeschlossen). S1 darf nicht ausgeführt werden, da die PC-Platine sonst initialisiert wird. Um die Platine einzustellen, die Vorschriften in "Einstellung der Platine" folgen. (Siehe seite 72)
2	**Einstellung der 3,3-V-Versorgungs spannung**	1. Den Netzschalter einschalten. 2. Einen Digital-Spannungsmesser mit TP1446 verbinden.	• R1649 so einstellen, daß am Spannungsmesser 3,325 V ± 100 mV angezeigt werden.
3	**Einstellung der 2,5-V-Versorgungs spannung**	1. Den Netzschalter einschalten. 2. Einen Digital-Spannungsmesser mit TP1447 verbinden.	• R1652 so einstellen, daß am Spannungsmesser 2,625 V ± 50 mV angezeigt werden.
4	**R-Antrieb**	1. Den nachfolgenden Gegenstand wählen. Gruppe: Analog/Digital Gegenstand: GAIN Sicherstellen, das der GAIN-Wert 163 beträgt. 2. Das Rotsignal (100%) zuführen und die folgende Wahl treffen. Gruppe : Analog/Digital Gegenstand: R-D	• Die Regelschalter oder die Tasten auf der Fernbedienung betätigen und die Daten so einstellen, daß das Signal "bitlos" (Störung) wird.
5	**B-Antrieb**	1. Das Blausignal (100%) zuführen und die folgende Wahl treffen. Gruppe : Analog/Digital Gegenstand : B-D	• Die Regelschalter oder die Tasten auf der Fernbedienung betätigen und die Daten so einstellen, daß das Signal "bitlos" (Störung) wird.
6	**G-Antrieb**	1. Das Grünsignal (100%) zuführen und die folgende Wahl treffen. Gruppe : Analog/Digital Gegenstand : G-D	• Die Regelschalter oder die Tasten auf der Fernbedienung betätigen und die Daten so einstellen, daß das Signal "bitlos" (Störung) wird.

Nr.	Einstellposition	Einstellbedingung	Einstellverfahren
7	**Schwarzpegel-Signalamplitude für RGB 1-System (ungeradzahlig)**	1. Die folgende Wahl treffen. Gruppe : OUTPUT 1 Gegenstand : R1-BLK R1-GAIN Für Grün sind die Gegenstände G1-BLK und G1-GAIN zu wählen. Für Schwarz sind die Gegenstände B1-BLK und B1-GAIN zu wählen. 2. Das Oszilloskop anschließen an TP1101 für Rot. TP1201 für Grün. TP1301 für Blau.	• Den Gegenstand R1-GAIN wählen und den Schwarz-Spitzenpegel auf 3,6 ±0,1 Vs-s Gleichspannung einstellen. Hierfür die Regelschalter oder die Tasten auf der Fernbedienung betätigen. • Danach den Gegenstand R1-BLK wählen und die Schwarzpegel-Signalamplitude auf 3,2 ±0,1 Vss Gleichspannung einstellen.  • Für Grün und Blau die Signalamplitude und den maximalen Schwarzpegel auf 3,3 ±0,1 Vss bzw. 3,64 ±0,1 V einstellen.
8	**P-SIGNAL**	1. Das Oszilloskop anschließen an TP1102 für Rot. TP1202 für Grün. TP1302 für Blau. 2. Die folgende Wahl treffen. Gruppe : OUTPUT 2 Gegenstand : PSIG-H PSIG-L	• Die PSIG-Wellenform so einstellen, daß sie der untenstehenden Abbildung entspricht.  • Sich vergewissern, daß die Wellenform der roten Farbe ungefähr der Wellenform für die grünen und blauen Farben entspricht.
9	**Muster- und Halteimpulsphase** **RCK-PHASE** **GCK-PHASE** **BCK-PHASE**	1. Das XGA-Schwarzwertsignal (75 Hz) zuführen. 2. Folgende Wahl vornehmen: Gruppe : OUTPUT 3 Gegenstand: SH-PHASE (Den Standardpegel auf 8 halten.) Die Phaseneinstellungen für R, G und B auf 8 fixieren.	• Die Einstellung mit den Regelschaltern oder den Fernbedienungstasten vornehmen. Dabei die Einstellung so durchführen, daß die "OUTPUT 3"-Zeichen nicht verschwommen sind bzw. überlappen. Wenn die Zeichen verschwommen sind oder überlappen, muß die Einstellung im Bereich zwischen 7 bis 9 ausgeführt werden.

Nr.	Einstellposition	Einstellbedingung	Einstellverfahren
10	**Einstellung der RGB-Gegenspannung**	1. Das 25%-Schwarz/Rot-Streifensignal (XGA) zuführen. 2. Folgende Wahl vornehmen: Gruppe : OUTPUT 3 Gegenstand : RC (R)	• Die Daten einstellen, um das Bildflimmern zu reduzieren. Hierfür die Regelschalter oder die Tasten auf der Fernbedienung betätigen. • Die gleiche Einstellung für BC (B) und GC (G) vornehmen. • Sicherstellen, daß beide Seiten rechts und links am Bildschirm mittig ausgerichtet sind. Falls dies nicht der Fall ist, muß der Bildschirm so eingestellt werden, daß das Bild rechts und links identisch ist.
11	**Regenerierung-seinstellung für RGB-Abstufung**	1. Das SMPTE-Signalmustersignal (nur Grün) zuführen.(XGA) Gruppe : OUTPUT 1 Gegenstand : G1-GAIN	• Die G-GAIN-Daten einstellen, bis die erste Abstufung ①(95% und 100% weiß; nachfolgend aufgeführt) geringfügig erkannt werden kann. Sicherstellen, daß die zweite Abstufung ②(0% und 5% schwarz) sichtbar ist. 
12	**RGB-Weißbalance**	1. Das Grauskalensignal (32 Abstufungen) zuführen (XGA). Gruppe : OUTPUT 1 Position : R1-BLK (R) B1-BLK (B)	• Die Posten R1-BLK und B1-BLK wählen und die Schwarzbalance der Abstufung einstellen.
13	**Horizontal center**	1. Das NTSC-Monoskopsignal zuführen. 2. Gruppe : VIDEO 2 Gegenstand : N358-DLY (6) N443-DLY (2) PAL-DLY (2) SECAM-DLY (2) Sicherstellen, daß die Einstellungen richtigeingestellt sind. 3. Gruppe : VIDEO 1 Gegenstand : NTSC-H	• Die Daten einstellen, um den gleichen Überscan-Wert zu erzielen. Hierfür die Regelschalter oder die Tasten auf der Fernbedienung betätigen.
14	**Einstellung des Videobilds**	1. Das Trennfarbbalkensignal zuführen. Gruppe : VIDEO 1 Gegenstand : PICTURE 2. Ein Oszilloskop zwischen Stift (2) von P801 und GND anschließen.	• Die Schwarz-zu-Weiß Signalpegeldifferenz (100%) auf 2,0 ±0,02 Vs-s einstellen. Hierfür die Regelschalter oder die Tasten auf der Fernbedienung betätigen. 

Nr.	Einstellposition	Einstellbedingung	Einstellverfahren
15	**Video AVR**	1. Das Trennfarbbalkensignal zuführen. Gruppe : VIDEO 1 Gegenstand : AGC 2. Das Oszilloskop zwischen Stift (2) von P801 und GND anschließen.	• Die Schwarz-zu-Weiß Signalpegeldifferenz (100%) auf 1,50 ±0,02 Vs-s einstellen. Hierfür die Regelschalter oder die Tasten auf der Fernbedienung betätigen. 
16	**Einstellung der Bildhelligkeit**	1. Das Grundfrequenzsignal (Trennfarbbalkensignal) zuführen. (Das ON-AIR-Signal ist nicht zulässig, da es zu viele Störungen erzeugt.) Gruppe : VIDEO 1 Gegenstand : BRIGHT 2. Den Regelschalter oder die Stummschalttaste auf der Fernbedienung drücken, um die Gammakorrektur auf die Verarbeitungseinstellung einzustellen.	• Mit den Regelschaltern am Gerät oder über die Fernbedienung die Einstellung so lange vornehmen, bis das Schwarzsignal bitlos ist und dann den Wert auf den -2-Punkt einstellen.
17	**Farbton**	1. Das Trennfarbbalkensignal zuführen. Gruppe : VIDEO 1 Gegenstand : TINT 2. Das Oszilloskop am Stift(4) von P801 anschließen.	• Die Daten so einstellen, daß die -(B-Y)-Welle geradlinig abfällt. Hierfür die Regelschalter oder die Tasten auf der Fernbedienung betätigen. 
18	**NTSC-Farbsättigungspegel**	1. Das Trennfarbbalkensignal zuführen. Gruppe : VIDEO 1 Gegenstand : N-COLOR 2. Das Oszilloskop am Stift (1) von P801 anschließen.	• Die Differenz (100%) des Weiß- und Rotanteils auf 0,10 ±0,02 Vs-s einstellen. Hierfür die Regelschalter oder die Tasten auf der Fernbedienung betätigen. (wie bei 100% Weißpegel) 

Nr.	Einstellposition	Einstellbedingung	Einstellverfahren
19	**PAL-Farbsättigungspegel**	1. Das PAL-Farbbalkensignal zuführen. Gruppe : VIDEO 1 Gegenstand : P-COLOR 2. Das Oszilloskop am Stift (1) von P801 anschließen.	• Die Differenz (100%) des Weiß- und Rotanteils auf 0,20 ±0,02 Vs-s einstellen. Hierfür die Regelschalter oder die Tasten auf der Fernbedienung betätigen. 
20	**SECAM-Farbsättigungspegel**	1. Das SECAM-Farbbalkensignal zuführen. Gruppe : VIDEO 1 Gegenstand : S-COLOR 2. Das Oszilloskop am Stift (1) von P801 anschließen.	• Die Daten-Differenz (100%) des Weiß- und Rotanteils auf 0,25 ±0,02 Vs-s einstellen. Hierfür die Regelschalter oder die Tasten auf der Fernbedienung betätigen. 
21	**Video-Weißbalance**	1. Das NTSC-Monoskopsignal zuführen. Gruppe : VIDEO 2 Gegenstand : R1-GAIN B1-GAIN	• Mit den Regelschaltern am Gerät oder über die Fernbedienung die Einstellung so vornehmen, daß die gesamte Bildschirmfläche gleichmäßig unbunt erscheint.
22	**Korrigieren der Farbabweichungsposition**	1. Ein RGB-Farbsignal (nur grau) zuführen. 2. Die Farbabweichungsposition am Bildschirm bestimmen. 3. Gruppe : NOKO Gegenstand : NOKO-RL	• Wenn Farbabweichungen vorhanden sind, die Daten für NOKO-RL einstellen. Für Abweichungen auf der rechten Seite ist R einzustellen, während L zum Einjustieren der linken Seite dient. • Wenn keine Farbunregelmäßigkeit vorliegt, ist die Sägezahn-Wellenkorrektur der NOKO-LH-Daten zu deaktivieren.
23	**Korrigieren der Farbabweichungsverstärkung (im Falle von Farbabweichungen)**	1. Ein RGB-Farbsignal (nur grau) zuführen	• R4215 einstellen, um die rechten und linken Farbabweichungen auf einen Mindestwert zu reduzieren.

Nr.	Einstellposition	Einstellbedingung	Einstellverfahren
24	**Leistungsprüfung des Farbsystems**	1. Das Farbbalkensignal empfangen.	• Im Verarbeitungsmodus L1 anwählen. Die Farbe und die Tönung überprüfen.
25	**Leistungsprüfung des Videosystems**	1. Das Monoskopsignal empfangen.	• Im Verarbeitungsmodus L2 anwählen. Die Farbe und die Tönung überprüfen.
26	**Leistungsprüfung des Audiosystems**		• Im Verarbeitungsmodus L3 anwählen. Baß, Höhen und Balance überprüfen.
27	**RGB-Leistungsprüfung**	1. Das RGB-Signal empfangen.	• Im Verarbeitungsmodus L4 anwählen. Bild, Helligkeit, Rot, Blau, Takt, Phase, Horizontal- und Vertikalposition überprüfen.
28	**Leistungsprüfung Off-Timer**		• Im Verarbeitungsmodus OFF anwählen. Sicherstellen, daß der Off-Timer bei "5" (Minuten) beginnt, jede Minute in 1 sec Intervallen herunterzählt und das Gerät bei "0" ausschaltet.
29	**Thermistor-Leistungsprüfung**	1. Den Thermistor mit einem Fön erwärmen.	• Sicherstellen, daß "TEMP" angezeigt wird.
30	**Automatische Synchronisierung**	1. Das PHASE-Prüfmustersignal empfangen.	• Den VGA/S-VGA/XGA/SXGA-Modus einschalten und sicherstellen, daß Taktung und Phase sowie Horizontal- und Vertikalposition automatisch einstellbar sind.
31	**IrDA-Leistungsprüfung**		• Sich vergewissern, daß das IrDA-Signal empfangen werden kann.
32	**Überprüfung der Trapezentzerrungskorrektur**		• Sich vergewissern, daß die Trapezentzerrungskorrektur einwandfrei funktioniert.
33	**Werkseinstellungen**		• Folgende Einstellungen durchführen: Verarbeitungseinstellung: S4 Fernbedienungseinstellung: "Werkseinstellung 4"

EINSTELLUNG DER PC-PLATINE (CPCi-0031CE04. PC I/F Einheit)

1. Justierung des Oszilloskops-Einstellbereichs

Den Einstellbereich auf Gleichspannung 1 V/Teilung und 5 µ/Teilung bringen.

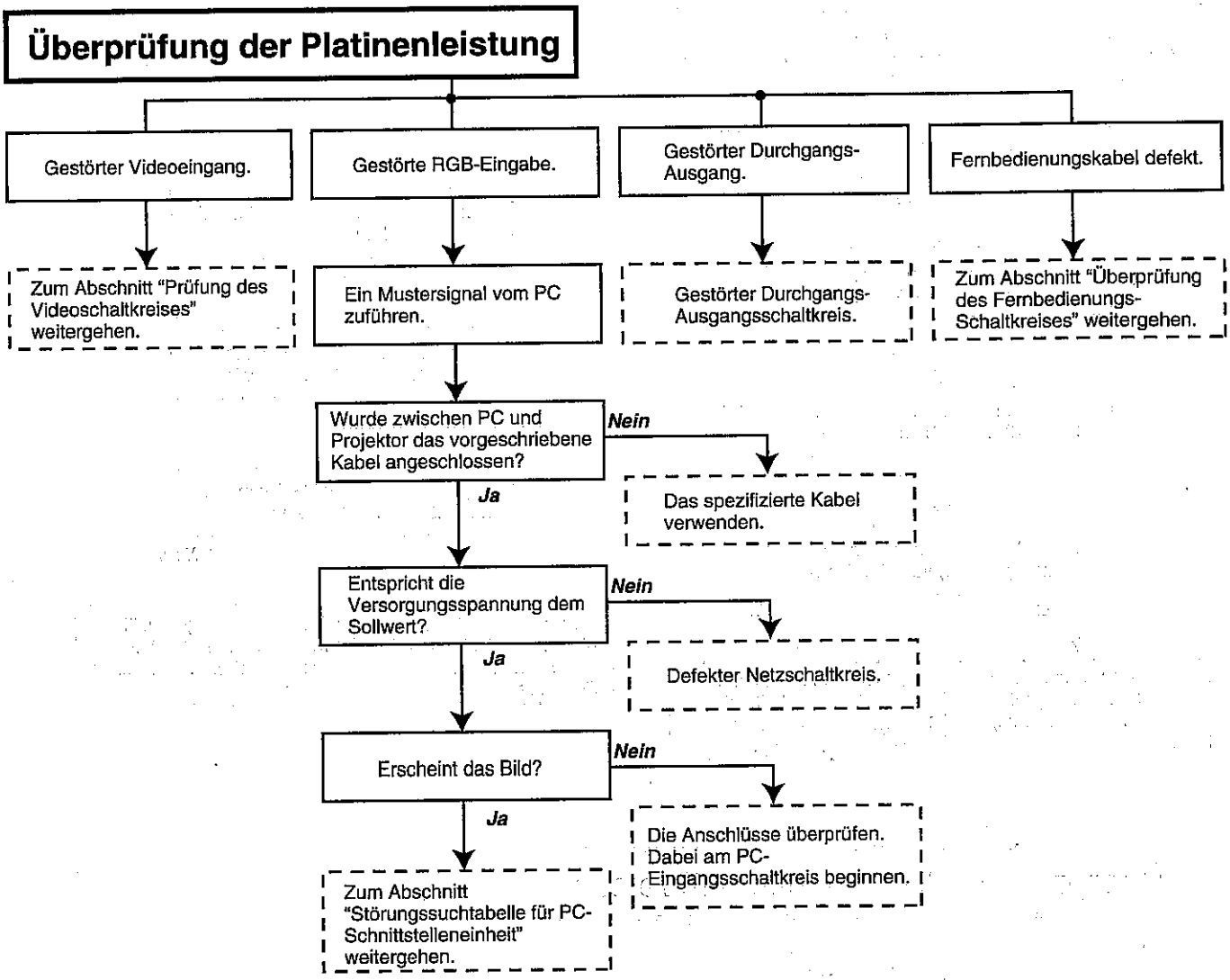
2. Anschluß der PC-Schnittstelle

1) Die PC-Schnittstelle am Projektor anschließen. Sicherstellen, daß die Anschlüsse CON2 (P8404), CON3 (P8502) und CON4 (P8405) gut festsitzen.
2) Das Kabel zwischen dem Anschluß des Computer-ANALOG OUTPUT und DSUB (INPUT1 am Projektor) anbringen.
3) Den Eingangswähler des Projektors in die RGB1-Position bringen.
4) Den Signalgenerator in den XGA-Modus bringen (1024x768, 60 Hz, 32fache Farbtonabstufung). Die Ausgangsamplitude ist auf 700 mVs-s zu halten.
5) Das Gerät einschalten.

3. Einstellung und Überprüfung der Farbtonabstufungen

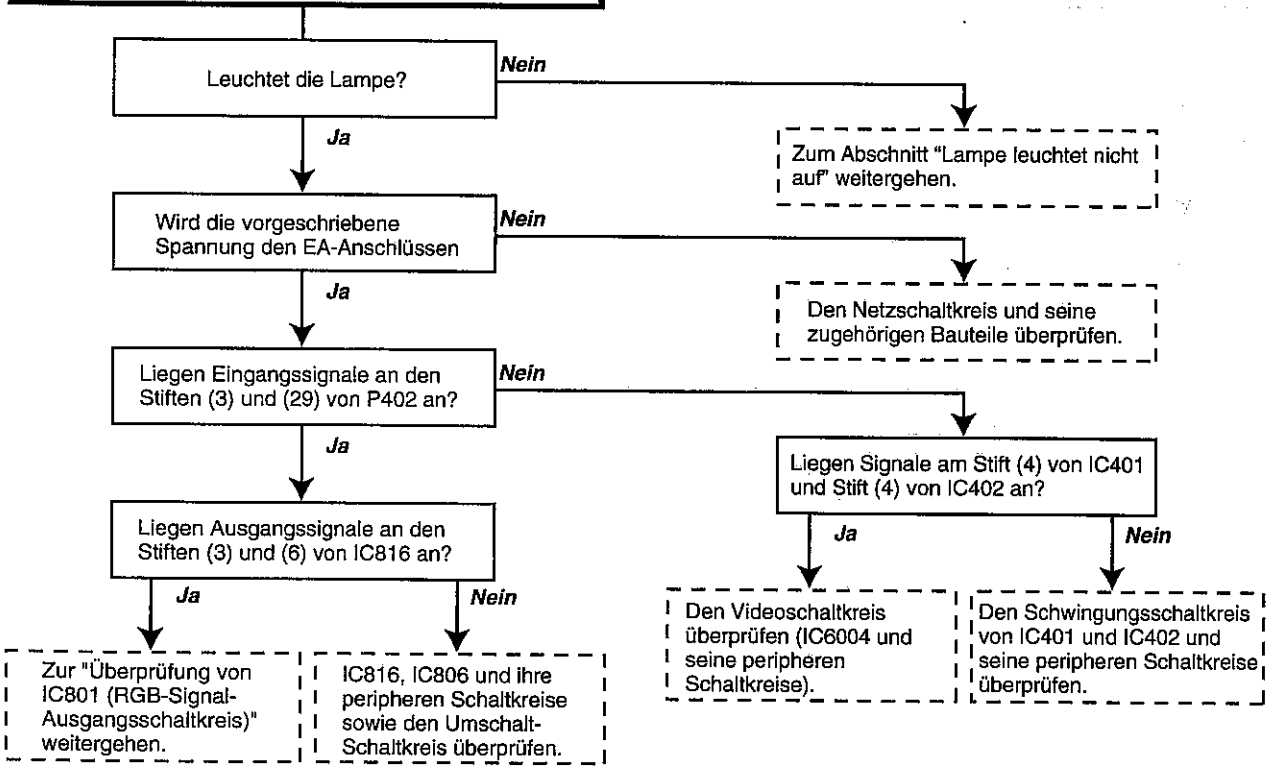
1) Den Schalter S5001 drücken, um den Verarbeitungsmodus abzurufen.
2) Für die SH-PHASE-Einstellung am OUTPUT3-Menü 8 eingeben.
   (So einstellen, daß die Zeichen auf dem Bildschirm klar und scharf erscheinen.)
3) Die Schwarzabstufung am TP8002 mit der BRIGHT-Einstellung im OUTPUT1-Menü auf 1,9 V einstellen.
4) ROS im Analog/Diginal-Menü so einstellen, daß die Spannung am TP8008 (oder am Stift (2) von IC8011) 1,7 V beträgt.
5) GOS im Analog/Diginal-Menü so einstellen, daß die Spannung am TP8009 (oder am Stift (2) von IC8010) 1,7 V beträgt.
6) BOS im Analog/Diginal-Menü so einstellen, daß die Spannung am TP8010 (oder am Stift (2) von IC8009) 1,7 V beträgt.
7) Sicherstellen, daß der Verstärkungswert (GAIN) im Analog/Digital-Menü 163 beträgt.
8) Die B-D-Einstellung am Analog/Digital-Menü wählen und die Weißabstufung am TP8001 auf 3,6 V einstellen. Sicherstellen, daß die Farbabstufungsskala (Anzahl der Farbstufen) dem Sollwert entspricht.
9) Die R-D-Einstellung am Analog/Digital-Menü wählen und die Weißabstufung am TP8003 auf 3,6 V einstellen. Sicherstellen, daß die Farbabstufungsskala (Anzahl der Farbstufen) dem Sollwert entspricht.
10) Die G-D-Einstellung am Analog/Digital-Menü wählen und die Weißabstufung am TP8002 auf 3,6 V einstellen. Sicherstellen, daß die Farbabstufungsskala (Anzahl der Farbstufen) dem Sollwert entspricht.
11) Schließlich den Schalter S5001 erneut drücken, um den Verarbeitungsmodus zu verlassen.

FEHLERSUCHTABELLE

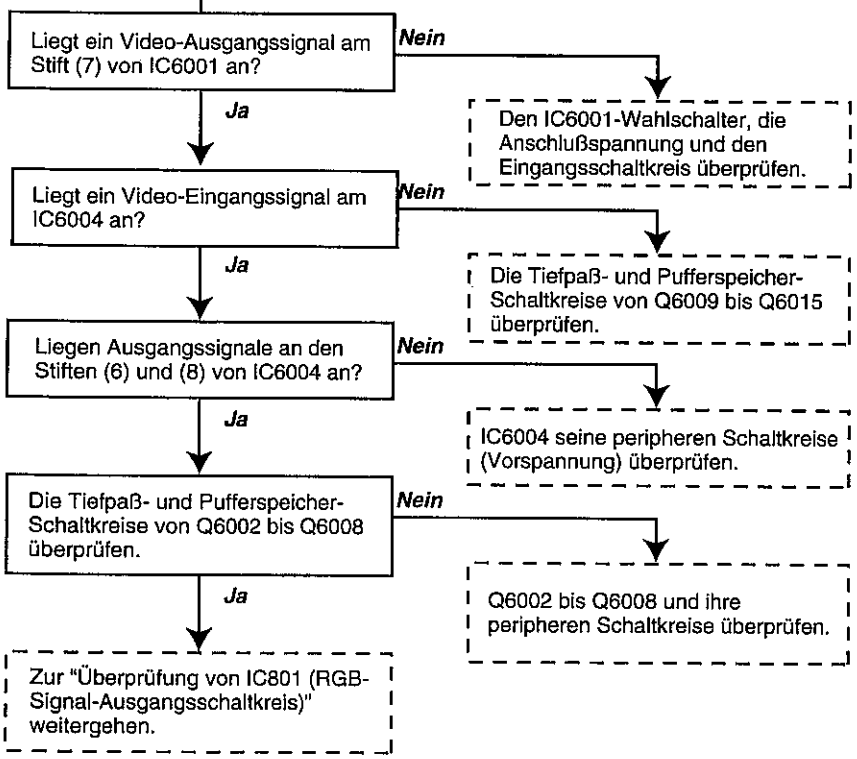


FEHLERSUCHTABELLE (Fortsetzung)

Überprüfung des Videosystems

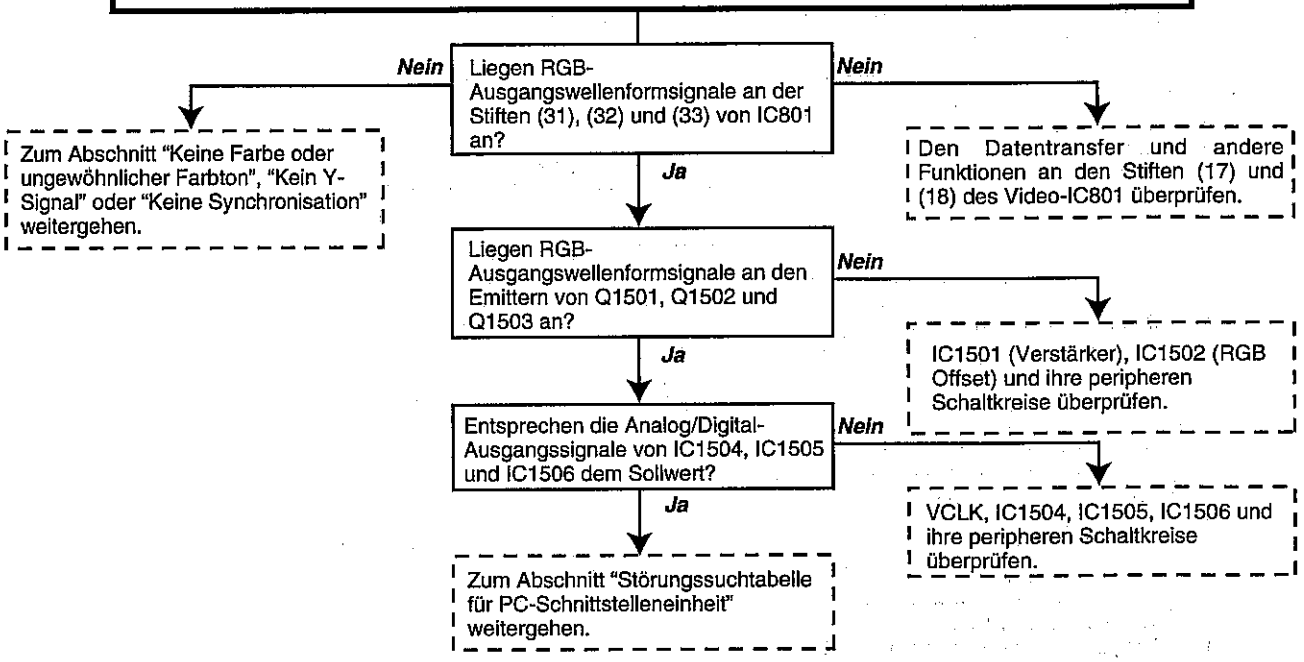

Leuchtet die Lampe?
Nein
Ja
Zum Abschnitt "Lampe leuchtet nicht auf" weitergehen.
Wird die vorgeschriebene Spannung den EA-Anschlüssen
Nein
Ja
Den Netzschaltkreis und seine zugehörigen Bauteile überprüfen.
Liegen Eingangssignale an den Stiften (3) und (29) von P402 an?
Nein
Ja
Liegen Signale am Stift (4) von IC401 und Stift (4) von IC402 an?
Ja
Nein
Liegen Ausgangssignale an den Stiften (3) und (6) von IC816 an?
Ja
Nein
Den Videoschaltkreis überprüfen (IC6004 und seine peripheren Schaltkreise).
Den Schwingungsschaltkreis von IC401 und IC402 und seine peripheren Schaltkreise überprüfen.
Zur "Überprüfung von IC801 (RGB-Signal-Ausgangsschaltkreis)" weitergehen.
IC816, IC806 und ihre peripheren Schaltkreise sowie den Umschalt-Schaltkreis überprüfen.

Überprüfung des Videoschaltkreises

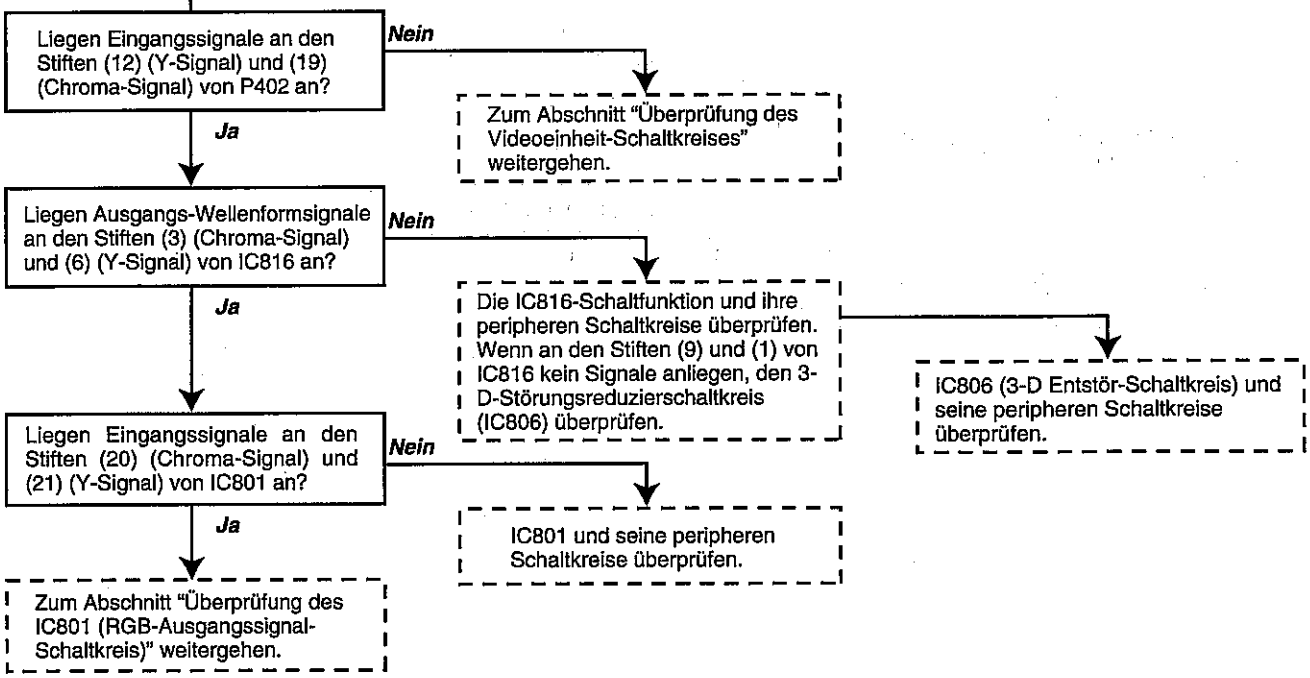

Liegt ein Video-Ausgangssignal am Stift (7) von IC6001 an?
Nein
Ja
Den IC6001-Wahlschalter, die Anschlußspannung und den Eingangsschaltkreis überprüfen.
Liegt ein Video-Eingangssignal am IC6004 an?
Nein
Ja
Die Tiefpaß- und Pufferspeicher-Schaltkreise von Q6009 bis Q6015 überprüfen.
Liegen Ausgangssignale an den Stiften (6) und (8) von IC6004 an?
Nein
Ja
IC6004 seine peripheren Schaltkreise (Vorspannung) überprüfen.
Die Tiefpaß- und Pufferspeicher-Schaltkreise von Q6002 bis Q6008 überprüfen.
Nein
Ja
Q6002 bis Q6008 und ihre peripheren Schaltkreise überprüfen.
Zur "Überprüfung von IC801 (RGB-Signal-Ausgangsschaltkreis)" weitergehen.

FEHLERSUCHTABELLE (Fortsetzung)

Überprüfung des IC801 (RGB-Signal-Ausgangsschaltkreis)

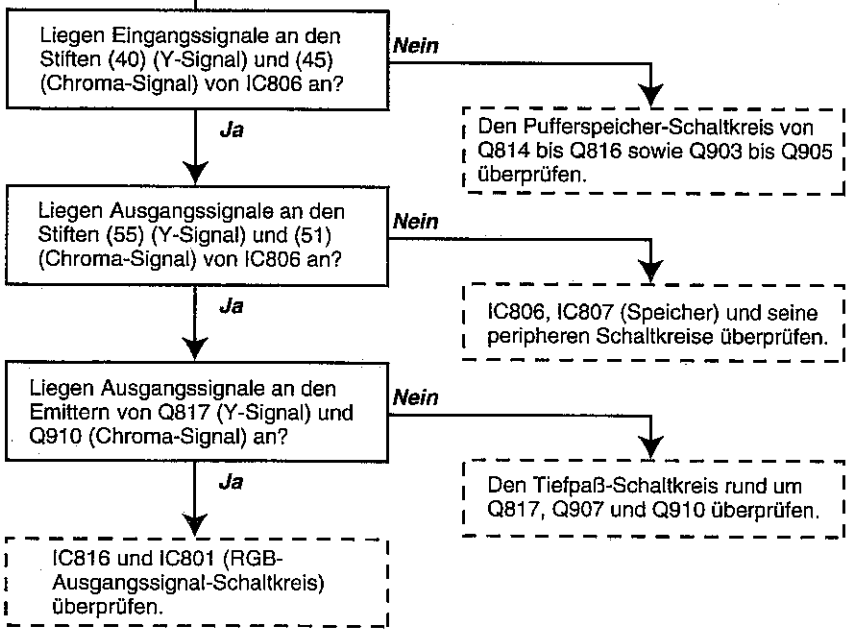

Liegen RGB-Ausgangswellenformsignale an der Stiften (31), (32) und (33) von IC801 an?
Nein
Zum Abschnitt "Keine Farbe oder ungewöhnlicher Farbton", "Kein Y-Signal" oder "Keine Synchronisation" weitergehen.
Nein
Den Datentransfer und andere Funktionen an den Stiften (17) und (18) des Video-IC801 überprüfen.
Ja
Liegen RGB-Ausgangswellenformsignale an den Emittern von Q1501, Q1502 und Q1503 an?
Nein
IC1501 (Verstärker), IC1502 (RGB Offset) und ihre peripheren Schaltkreise überprüfen.
Ja
Entsprechen die Analog/Digital-Ausgangssignale von IC1504, IC1505 und IC1506 dem Sollwert?
Nein
VCLK, IC1504, IC1505, IC1506 und ihre peripheren Schaltkreise überprüfen.
Ja
Zum Abschnitt "Störungssuchtabelle für PC-Schnittstelleneinheit" weitergehen.

Überprüfung der Chroma- und Y-Signale des IC801 (RGB-Signalausgabe)

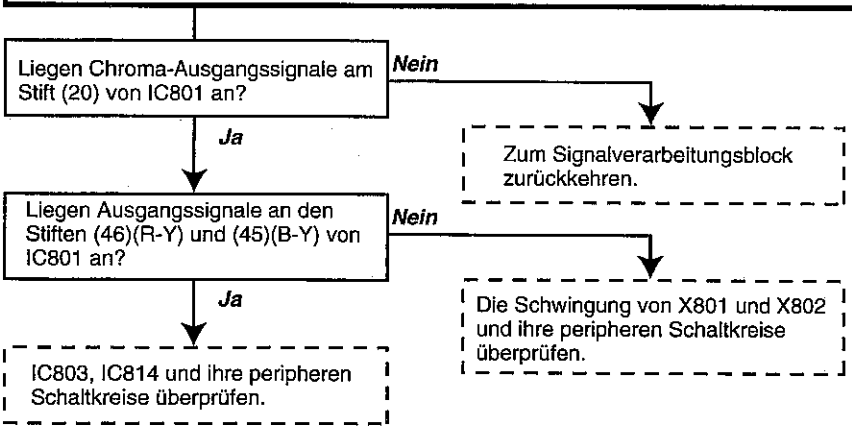

Liegen Eingangssignale an den Stiften (12) (Y-Signal) und (19) (Chroma-Signal) von P402 an?
Nein
Zum Abschnitt "Überprüfung des Videoeinheit-Schaltkreises" weitergehen.
Ja
Liegen Ausgangs-Wellenformsignale an den Stiften (3) (Chroma-Signal) und (6) (Y-Signal) von IC816 an?
Nein
Die IC816-Schaltfunktion und ihre peripheren Schaltkreise überprüfen. Wenn an den Stiften (9) und (1) von IC816 kein Signale anliegen, den 3-D-Störungsreduzierschaltkreis (IC806) überprüfen.
IC806 (3-D Entstör-Schaltkreis) und seine peripheren Schaltkreise überprüfen.
Ja
Liegen Eingangssignale an den Stiften (20) (Chroma-Signal) und (21) (Y-Signal) von IC801 an?
Nein
IC801 und seine peripheren Schaltkreise überprüfen.
Ja
Zum Abschnitt "Überprüfung des IC801 (RGB-Ausgangssignal-Schaltkreis)" weitergehen.

FEHLERSUCHTABELLE (Fortsetzung)

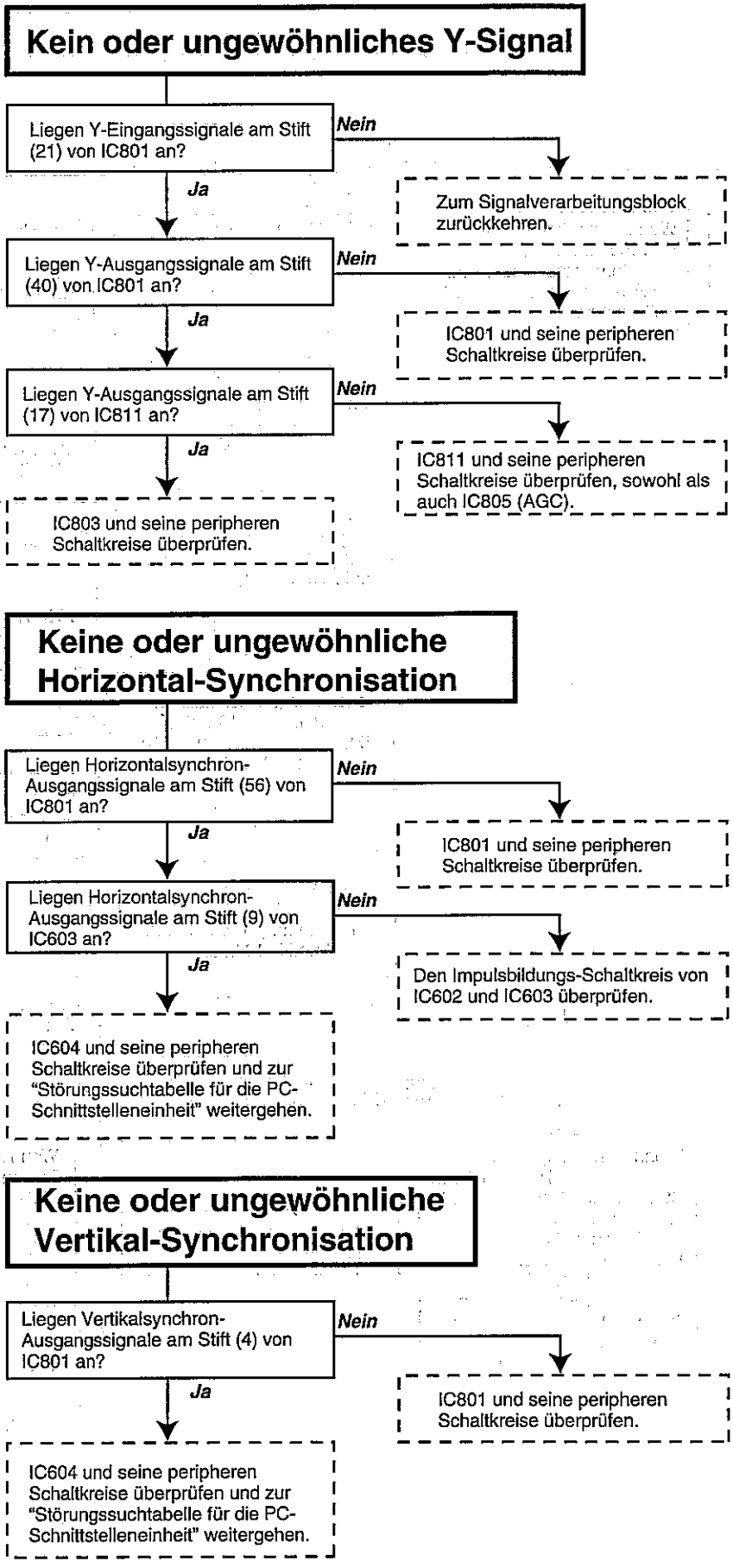
Überprüfung des IC806 (3-D Störungs-Reduzierschaltkreis) und seiner peripheren Schaltkreise


Liegen Eingangssignale an den Stiften (40) (Y-Signal) und (45) (Chroma-Signal) von IC806 an?
Nein
Ja
Den Pufferspeicher-Schaltkreis von Q814 bis Q816 sowie Q903 bis Q905 überprüfen.
Liegen Ausgangssignale an den Stiften (55) (Y-Signal) und (51) (Chroma-Signal) von IC806 an?
Nein
Ja
IC806, IC807 (Speicher) und seine peripheren Schaltkreise überprüfen.
Liegen Ausgangssignale an den Emittern von Q817 (Y-Signal) und Q910 (Chroma-Signal) an?
Nein
Ja
Den Tiefpaß-Schaltkreis rund um Q817, Q907 und Q910 überprüfen.
IC816 und IC801 (RGB-Ausgangssignal-Schaltkreis) überprüfen.

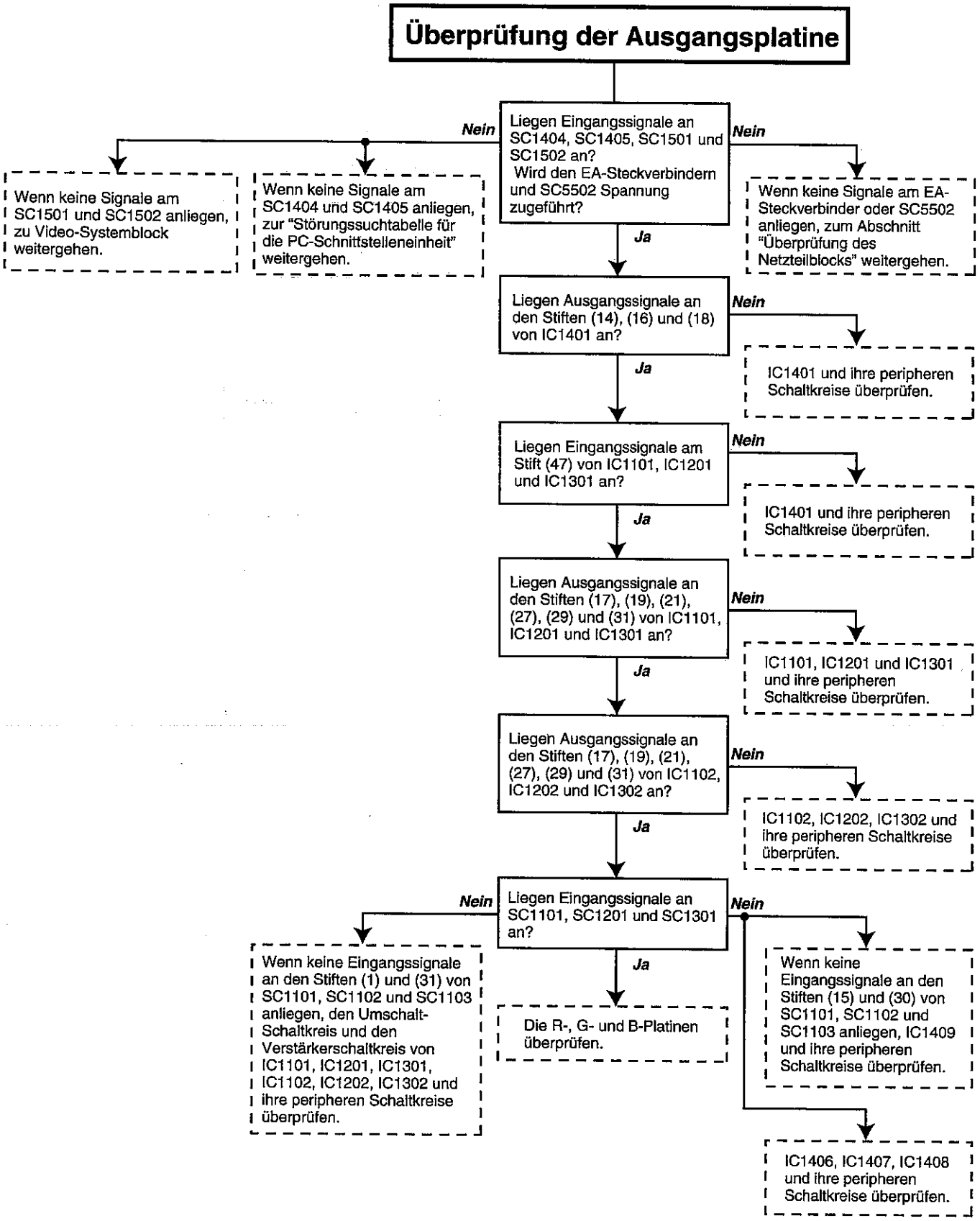
Keine Farbe oder ungewöhnlicher Farbton (NTSC, PAL)


Liegen Chroma-Ausgangssignale am Stift (20) von IC801 an?
Nein
Ja
Zum Signalverarbeitungsblock zurückkehren.
Liegen Ausgangssignale an den Stiften (46)(R-Y) und (45)(B-Y) von IC801 an?
Nein
Ja
Die Schwingung von X801 und X802 und ihre peripheren Schaltkreise überprüfen.
IC803, IC814 und ihre peripheren Schaltkreise überprüfen.

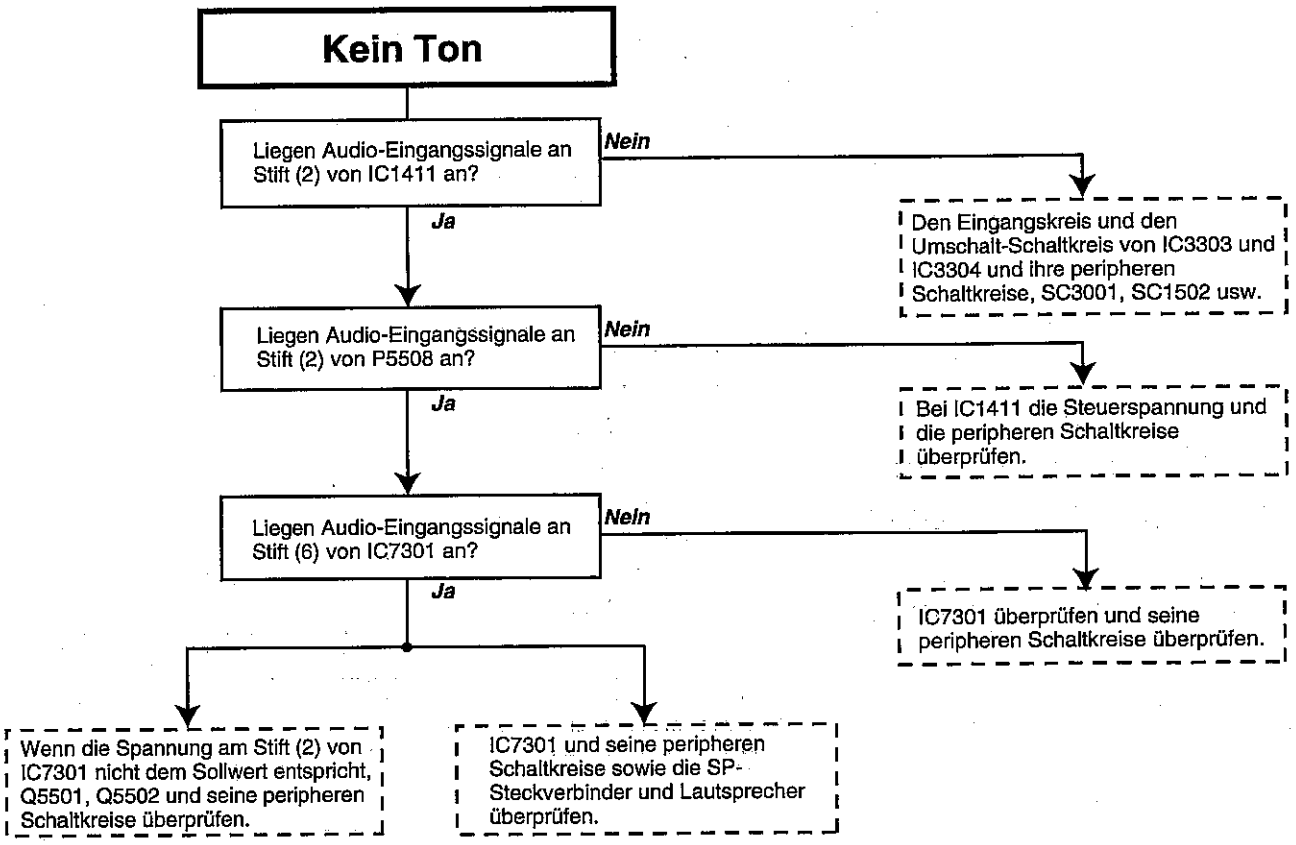
FEHLERSUCHTABELLE (Fortsetzung)


Kein oder ungewöhnliches Y-Signal
Liegen Y-Eingangssignale am Stift (21) von IC801 an?
Nein
Zum Signalverarbeitungsblock zurückkehren.
Ja
Liegen Y-Ausgangssignale am Stift (40) von IC801 an?
Nein
IC801 und seine peripheren Schaltkreise überprüfen.
Ja
Liegen Y-Ausgangssignale am Stift (17) von IC811 an?
Nein
IC811 und seine peripheren Schaltkreise überprüfen, sowohl als auch IC805 (AGC).
Ja
IC803 und seine peripheren Schaltkreise überprüfen.
Keine oder ungewöhnliche Horizontal-Synchronisation
Liegen Horizontalsynchron-Ausgangssignale am Stift (56) von IC801 an?
Nein
IC801 und seine peripheren Schaltkreise überprüfen.
Ja
Liegen Horizontalsynchron-Ausgangssignale am Stift (9) von IC603 an?
Nein
Den Impulsbildungs-Schaltkreis von IC602 und IC603 überprüfen.
Ja
IC604 und seine peripheren Schaltkreise überprüfen und zur "Störungssuchtabelle für die PC-Schnittstelleneinheit" weitergehen.
Keine oder ungewöhnliche Vertikal-Synchronisation
Liegen Vertikalsynchron-Ausgangssignale am Stift (4) von IC801 an?
Nein
IC801 und seine peripheren Schaltkreise überprüfen.
Ja
IC604 und seine peripheren Schaltkreise überprüfen und zur "Störungssuchtabelle für die PC-Schnittstelleneinheit" weitergehen.

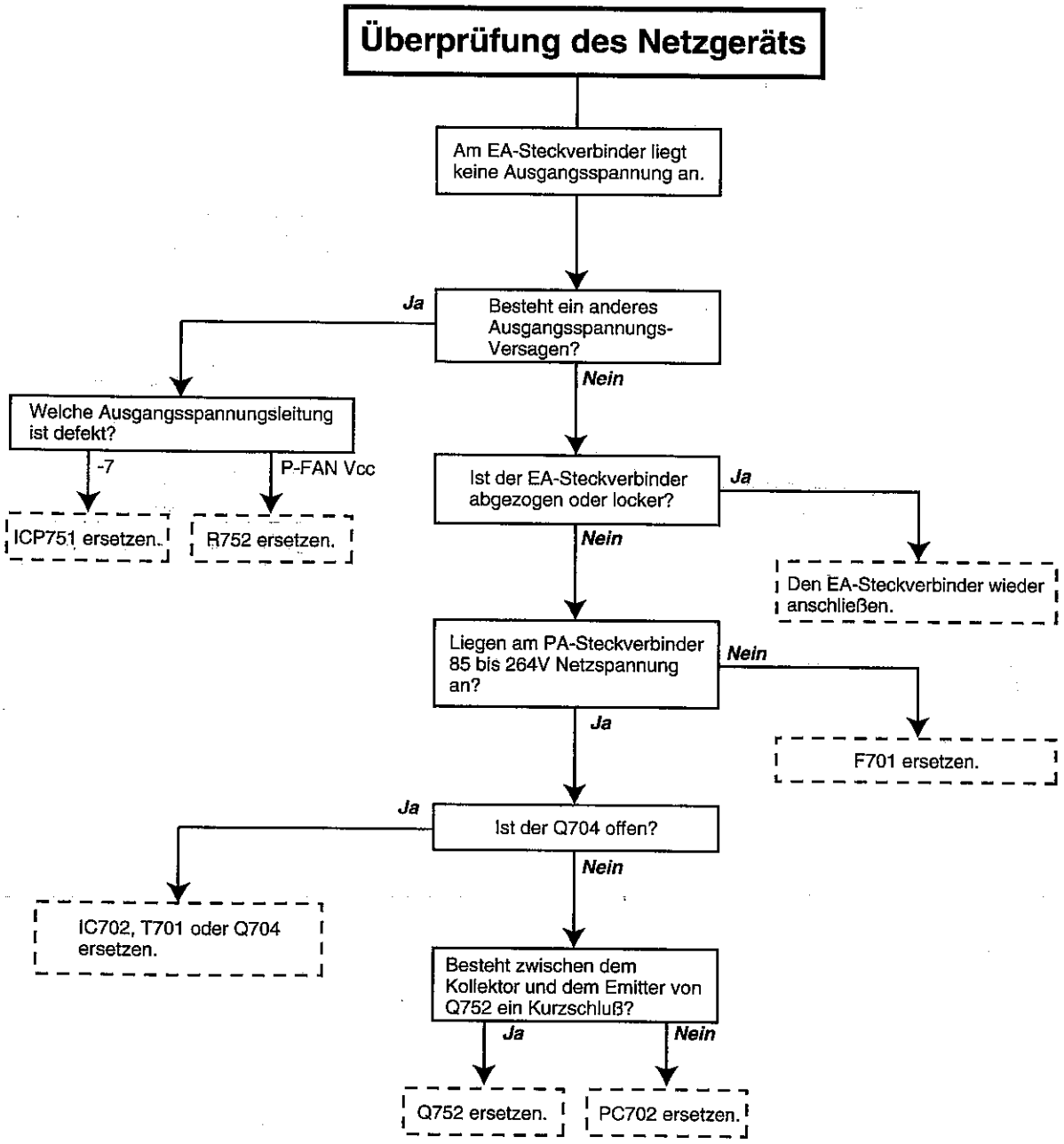
FEHLERSUCHTABELLE (Fortsetzung)


Überprüfung der Ausgangsplatine
Liegen Eingangssignale an SC1404, SC1405, SC1501 und SC1502 an? Wird den EA-Steckverbindern und SC5502 Spannung zugeführt?
Nein
Wenn keine Signale am SC1501 und SC1502 anliegen, zu Video-Systemblock weitergehen.
Wenn keine Signale am SC1404 und SC1405 anliegen, zur "Störungssuchtabelle für die PC-Schnittstelleneinheit" weitergehen.
Nein
Wenn keine Signale am EA-Steckverbinder oder SC5502 anliegen, zum Abschnitt "Überprüfung des Netzteilblocks" weitergehen.
Ja
Liegen Ausgangssignale an den Stiften (14), (16) und (18) von IC1401 an?
Nein
IC1401 und ihre peripheren Schaltkreise überprüfen.
Ja
Liegen Eingangssignale am Stift (47) von IC1101, IC1201 und IC1301 an?
Nein
IC1401 und ihre peripheren Schaltkreise überprüfen.
Ja
Liegen Ausgangssignale an den Stiften (17), (19), (21), (27), (29) und (31) von IC1101, IC1201 und IC1301 an?
Nein
IC1101, IC1201 und IC1301 und ihre peripheren Schaltkreise überprüfen.
Ja
Liegen Ausgangssignale an den Stiften (17), (19), (21), (27), (29) und (31) von IC1102, IC1202 und IC1302 an?
Nein
IC1102, IC1202, IC1302 und ihre peripheren Schaltkreise überprüfen.
Ja
Liegen Eingangssignale an SC1101, SC1201 und SC1301 an?
Nein
Wenn keine Eingangssignale an den Stiften (1) und (31) von SC1101, SC1102 und SC1103 anliegen, den Umschalt-Schaltkreis und den Verstärkerschaltkreis von IC1101, IC1201, IC1301, IC1102, IC1202, IC1302 und ihre peripheren Schaltkreise überprüfen.
Ja
Die R-, G- und B-Platinen überprüfen.
Nein
Wenn keine Eingangssignale an den Stiften (15) und (30) von SC1101, SC1102 und SC1103 anliegen, IC1409 und ihre peripheren Schaltkreise überprüfen.
IC1406, IC1407, IC1408 und ihre peripheren Schaltkreise überprüfen.

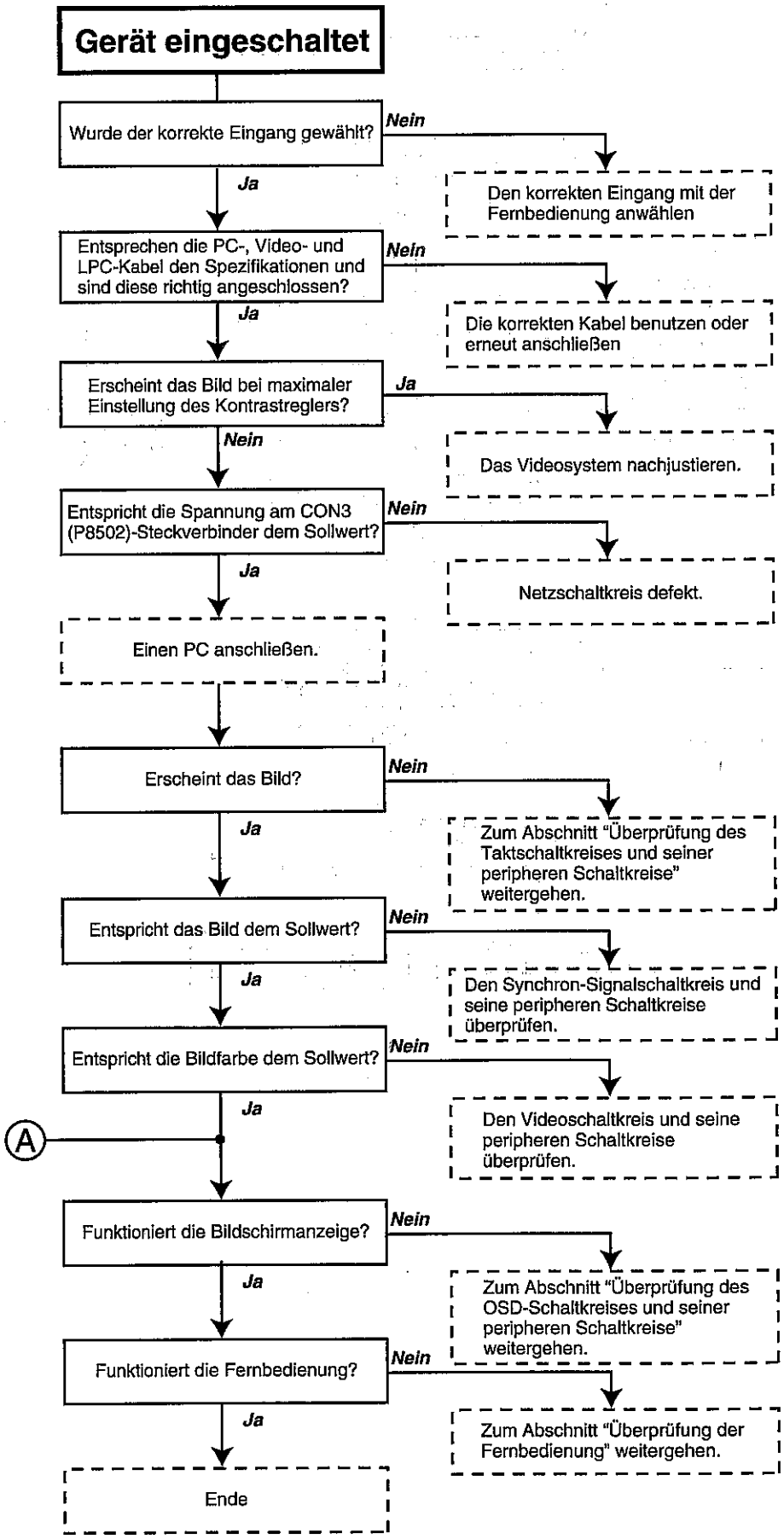
FEHLERSUCHTABELLE (Fortsetzung)


Kein Ton
Liegen Audio-Eingangssignale an Stift (2) von IC1411 an?
Nein
Ja
Den Eingangskreis und den Umschalt-Schaltkreis von IC3303 und IC3304 und ihre peripheren Schaltkreise, SC3001, SC1502 usw.
Liegen Audio-Eingangssignale an Stift (2) von P5508 an?
Nein
Ja
Bei IC1411 die Steuerspannung und die peripheren Schaltkreise überprüfen.
Liegen Audio-Eingangssignale an Stift (6) von IC7301 an?
Nein
Ja
IC7301 überprüfen und seine peripheren Schaltkreise überprüfen.
Wenn die Spannung am Stift (2) von IC7301 nicht dem Sollwert entspricht, Q5501, Q5502 und seine peripheren Schaltkreise überprüfen.
IC7301 und seine peripheren Schaltkreise sowie die SP-Steckverbinder und Lautsprecher überprüfen.

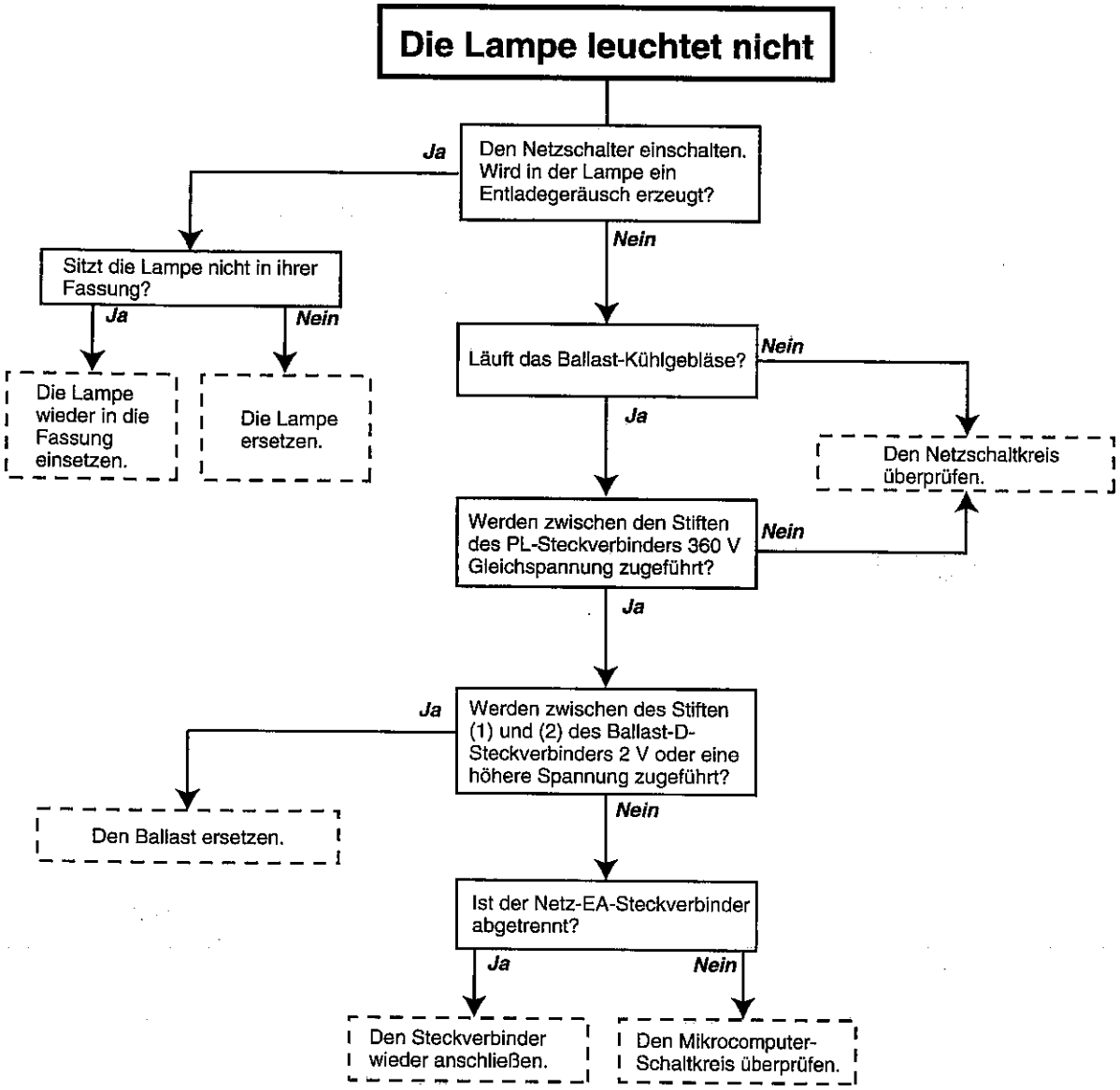
FEHLERSUCHTABELLE (Fortsetzung)



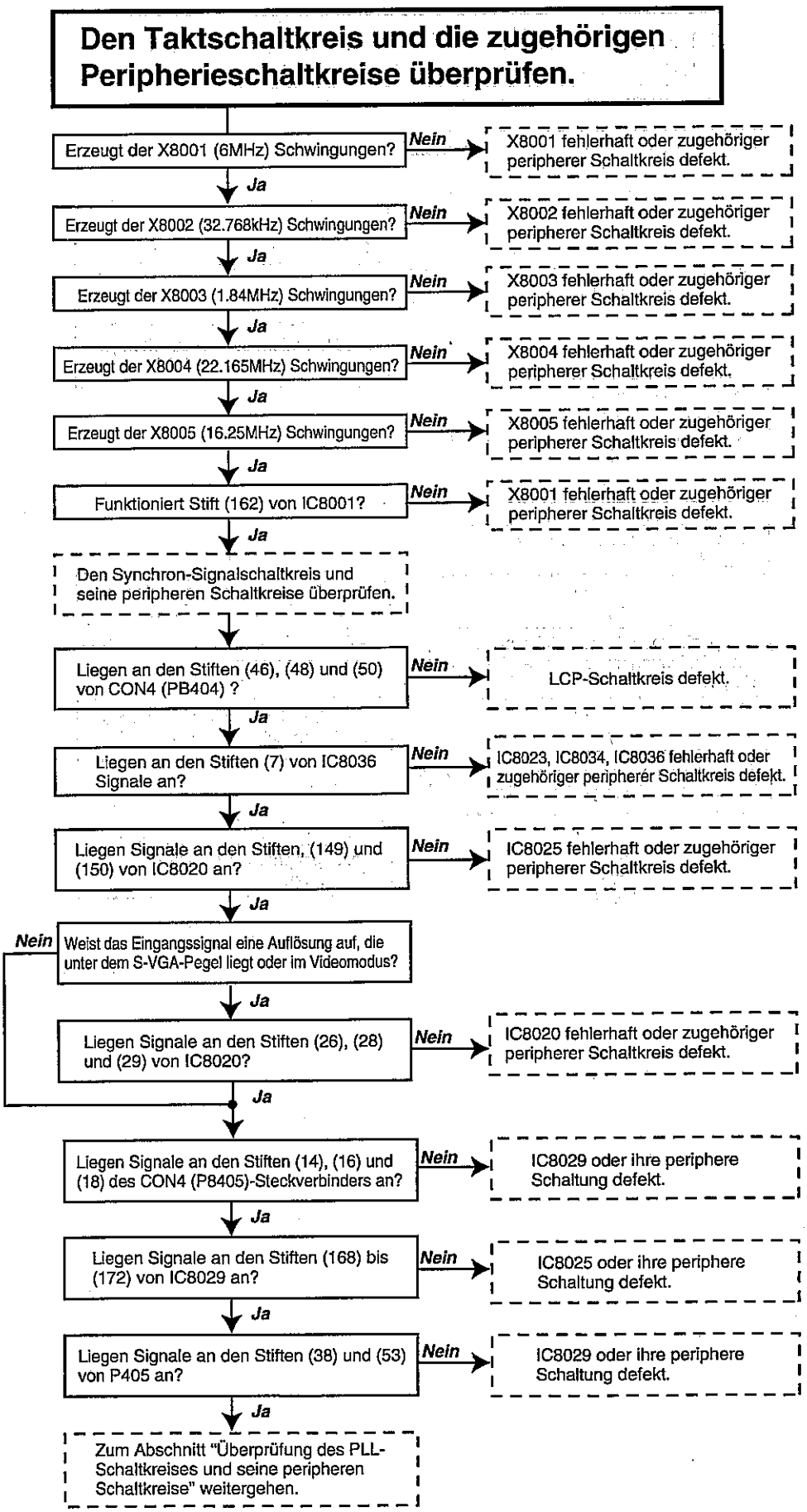
FEHLERSUCHTABELLE (Fortsetzung)



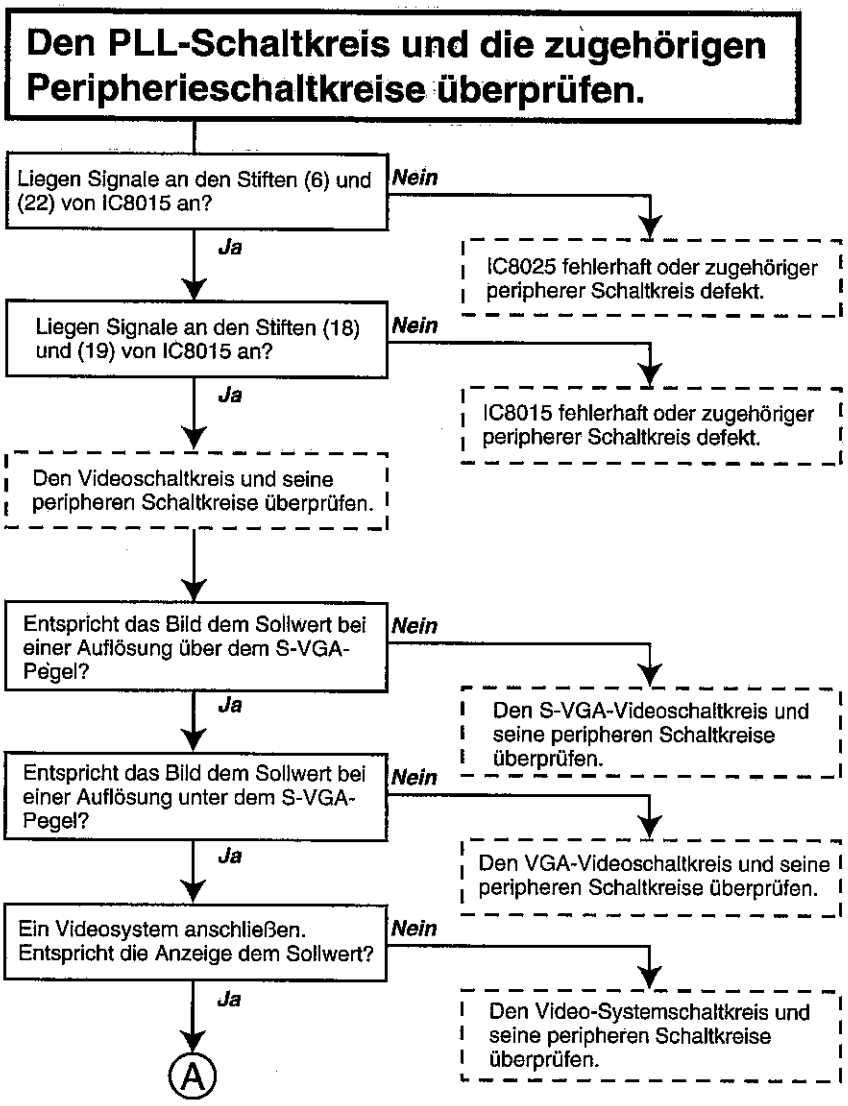
FEHLERSUCHTABELLE (Fortsetzung)



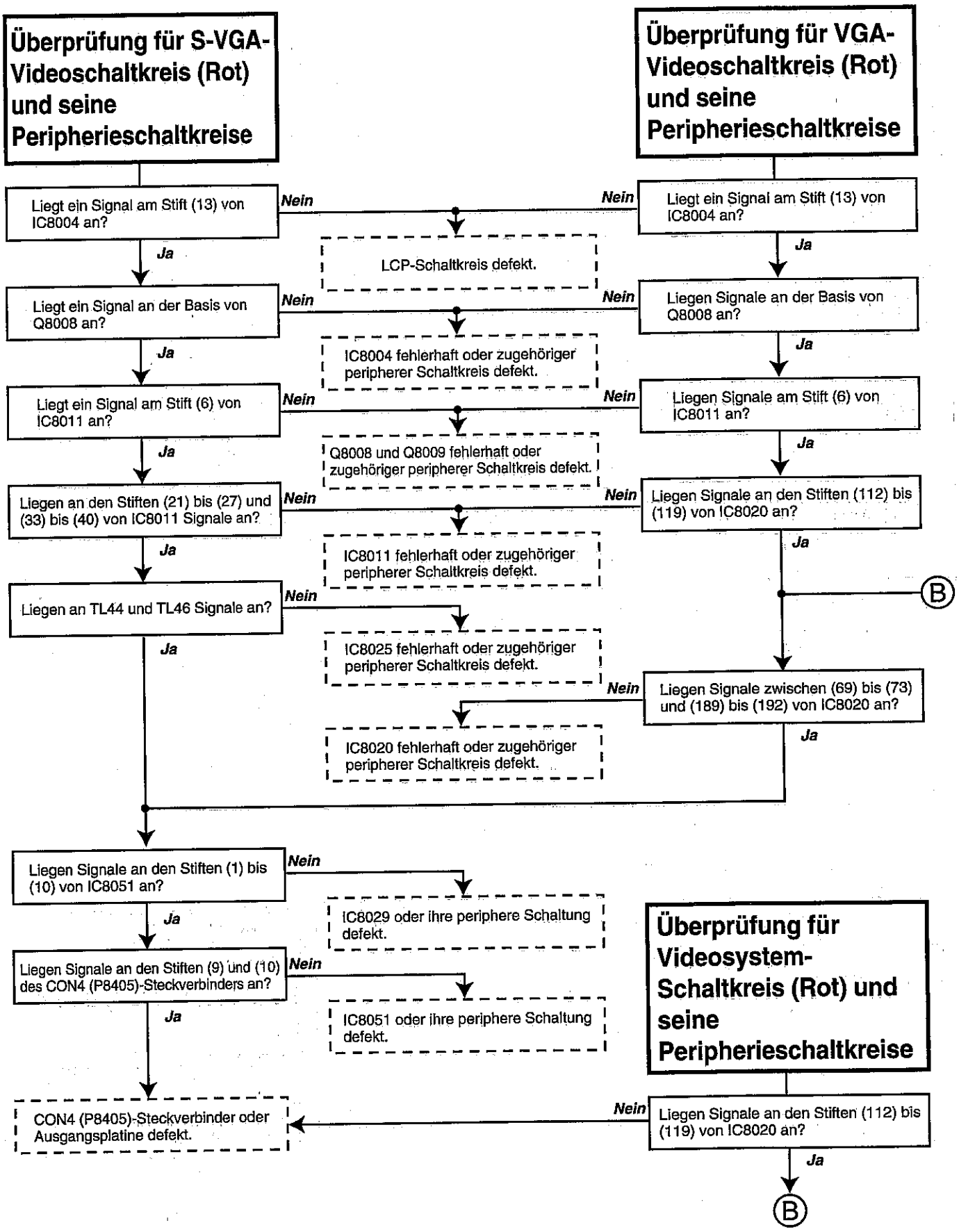
FEHLERSUCHTABELLE FÜR PC I/F EINHEIT-1


Den Taktschaltkreis und die zugehörigen Peripherieschaltkreise überprüfen.
Erzeugt der X8001 (6MHz) Schwingungen?
Nein
X8001 fehlerhaft oder zugehöriger peripherer Schaltkreis defekt.
Ja
Erzeugt der X8002 (32.768kHz) Schwingungen?
Nein
X8002 fehlerhaft oder zugehöriger peripherer Schaltkreis defekt.
Ja
Erzeugt der X8003 (1.84MHz) Schwingungen?
Nein
X8003 fehlerhaft oder zugehöriger peripherer Schaltkreis defekt.
Ja
Erzeugt der X8004 (22.165MHz) Schwingungen?
Nein
X8004 fehlerhaft oder zugehöriger peripherer Schaltkreis defekt.
Ja
Erzeugt der X8005 (16.25MHz) Schwingungen?
Nein
X8005 fehlerhaft oder zugehöriger peripherer Schaltkreis defekt.
Ja
Funktioniert Stift (162) von IC8001?
Nein
X8001 fehlerhaft oder zugehöriger peripherer Schaltkreis defekt.
Ja
Den Synchron-Signalschaltkreis und seine peripheren Schaltkreise überprüfen.
Liegen an den Stiften (46), (48) und (50) von CON4 (PB404) ?
Nein
LCP-Schaltkreis defekt.
Ja
Liegen an den Stiften (7) von IC8036 Signale an?
Nein
IC8023, IC8034, IC8036 fehlerhaft oder zugehöriger peripherer Schaltkreis defekt.
Ja
Liegen Signale an den Stiften, (149) und (150) von IC8020 an?
Nein
IC8025 fehlerhaft oder zugehöriger peripherer Schaltkreis defekt.
Ja
Nein
Weist das Eingangssignal eine Auflösung auf, die unter dem S-VGA-Pegel liegt oder im Videomodus?
Ja
Liegen Signale an den Stiften (26), (28) und (29) von IC8020?
Nein
IC8020 fehlerhaft oder zugehöriger peripherer Schaltkreis defekt.
Ja
Liegen Signale an den Stiften (14), (16) und (18) des CON4 (P8405)-Steckverbinders an?
Nein
IC8029 oder ihre periphere Schaltung defekt.
Ja
Liegen Signale an den Stiften (168) bis (172) von IC8029 an?
Nein
IC8025 oder ihre periphere Schaltung defekt.
Ja
Liegen Signale an den Stiften (38) und (53) von P405 an?
Nein
IC8029 oder ihre periphere Schaltung defekt.
Ja
Zum Abschnitt "Überprüfung des PLL-Schaltkreises und seine peripheren Schaltkreise" weitergehen.

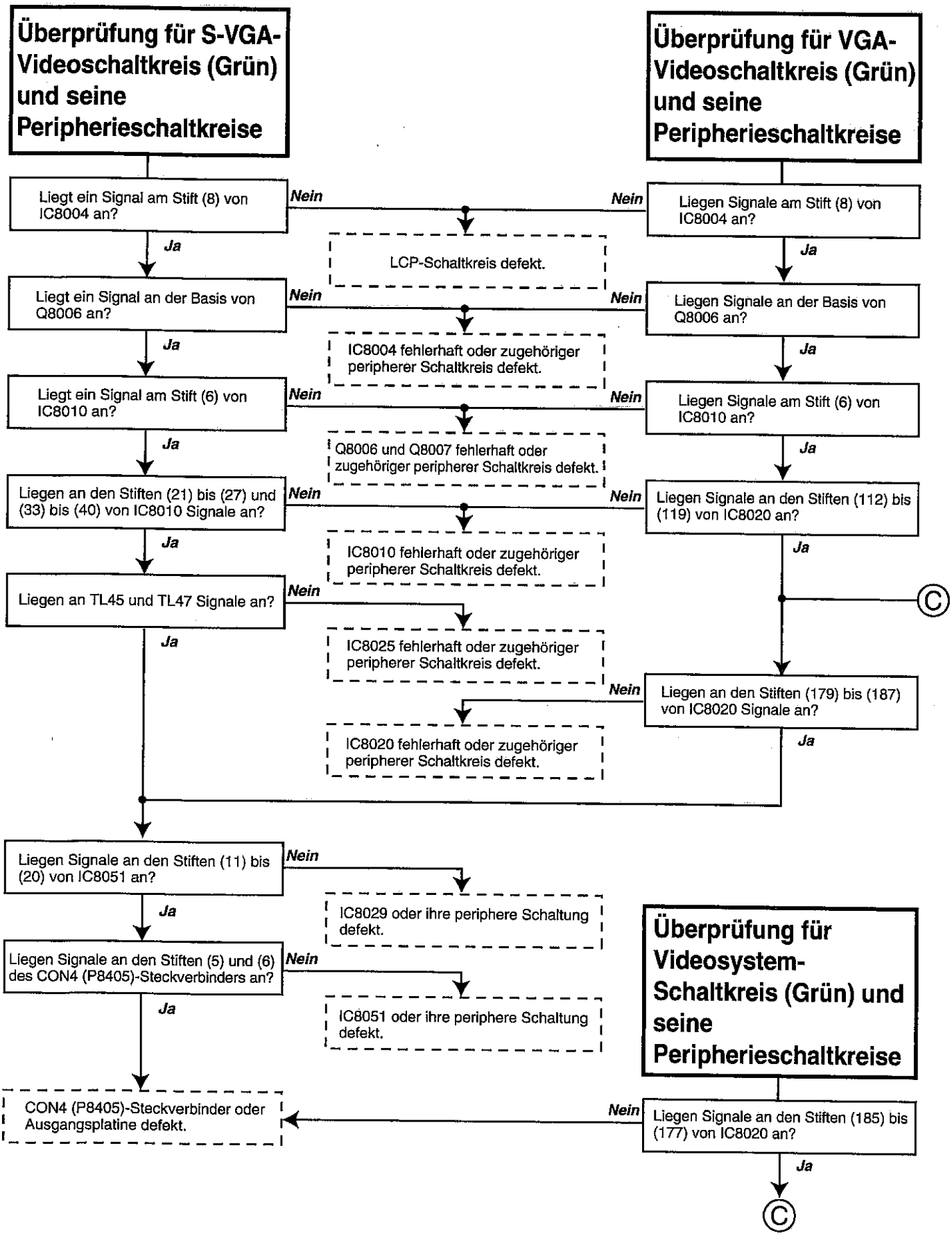
FEHLERSUCHTABELLE FÜR PC I/F EINHEIT-2


Den PLL-Schaltkreis und die zugehörigen Peripherieschaltkreise überprüfen.
Liegen Signale an den Stiften (6) und (22) von IC8015 an?
Nein
IC8025 fehlerhaft oder zugehöriger peripherer Schaltkreis defekt.
Ja
Liegen Signale an den Stiften (18) und (19) von IC8015 an?
Nein
IC8015 fehlerhaft oder zugehöriger peripherer Schaltkreis defekt.
Ja
Den Videoschaltkreis und seine peripheren Schaltkreise überprüfen.
Entspricht das Bild dem Sollwert bei einer Auflösung über dem S-VGA-Pegel?
Nein
Den S-VGA-Videoschaltkreis und seine peripheren Schaltkreise überprüfen.
Ja
Entspricht das Bild dem Sollwert bei einer Auflösung unter dem S-VGA-Pegel?
Nein
Den VGA-Videoschaltkreis und seine peripheren Schaltkreise überprüfen.
Ja
Ein Videosystem anschließen. Entspricht die Anzeige dem Sollwert?
Nein
Den Video-Systemschaltkreis und seine peripheren Schaltkreise überprüfen.
Ja
A

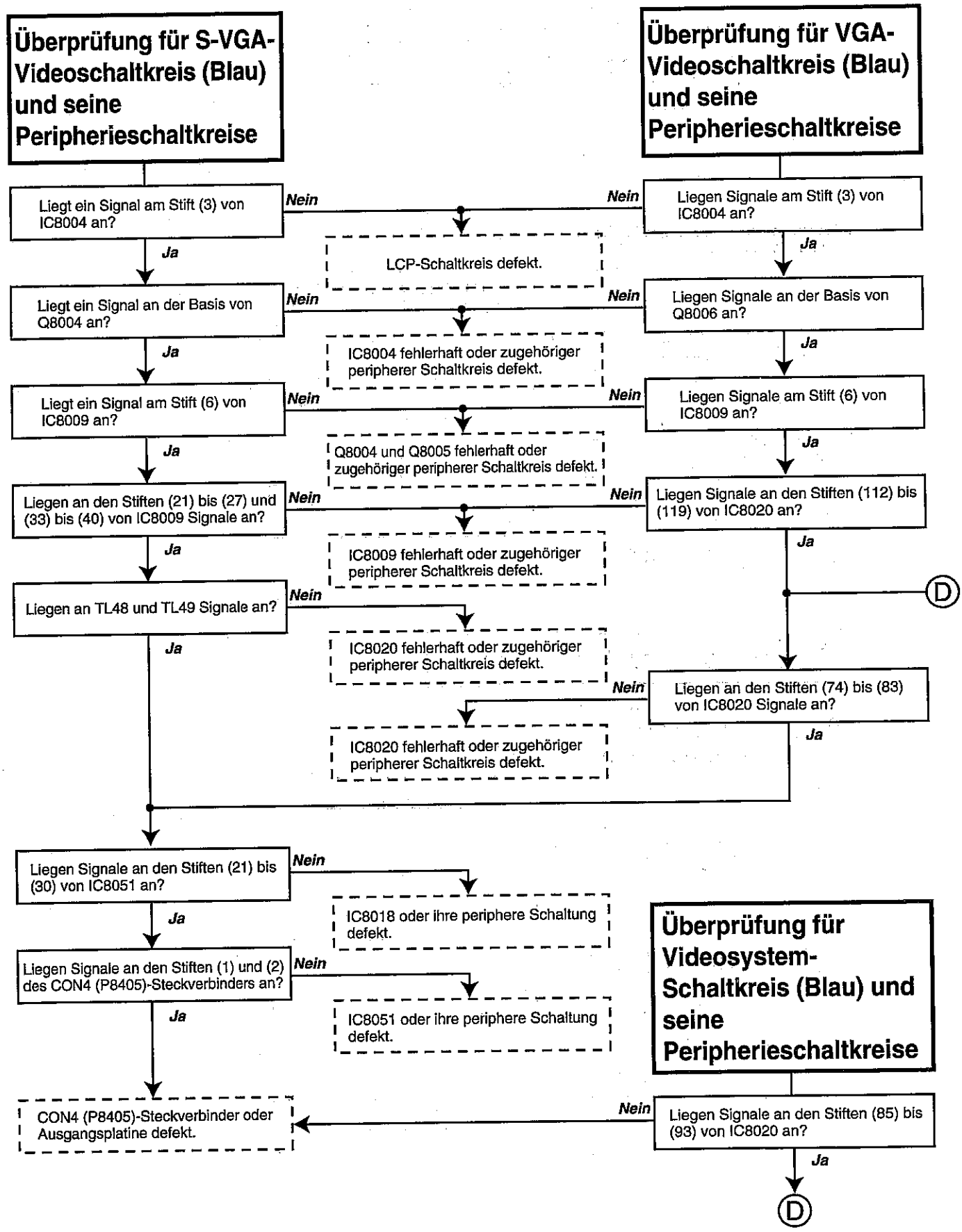
FEHLERSUCHTABELLE FÜR PC I/F EINHEIT-3


Überprüfung für S-VGA-Videoschaltkreis (Rot) und seine Peripherieschaltkreise
Liegt ein Signal am Stift (13) von IC8004 an?
Nein
LCP-Schaltkreis defekt.
Ja
Liegt ein Signal an der Basis von Q8008 an?
Nein
IC8004 fehlerhaft oder zugehöriger peripherer Schaltkreis defekt.
Ja
Liegt ein Signal am Stift (6) von IC8011 an?
Nein
Q8008 und Q8009 fehlerhaft oder zugehöriger peripherer Schaltkreis defekt.
Ja
Liegen an den Stiften (21) bis (27) und (33) bis (40) von IC8011 Signale an?
Nein
IC8011 fehlerhaft oder zugehöriger peripherer Schaltkreis defekt.
Ja
Liegen an TL44 und TL46 Signale an?
Nein
IC8025 fehlerhaft oder zugehöriger peripherer Schaltkreis defekt.
Ja
Liegen Signale an den Stiften (1) bis (10) von IC8051 an?
Nein
IC8029 oder ihre periphere Schaltung defekt.
Ja
Liegen Signale an den Stiften (9) und (10) des CON4 (P8405)-Steckverbinders an?
Nein
IC8051 oder ihre periphere Schaltung defekt.
Ja
CON4 (P8405)-Steckverbinder oder Ausgangsplatine defekt.
Überprüfung für VGA-Videoschaltkreis (Rot) und seine Peripherieschaltkreise
Liegt ein Signal am Stift (13) von IC8004 an?
Nein
Ja
Liegen Signale an der Basis von Q8008 an?
Nein
Ja
Liegen Signale am Stift (6) von IC8011 an?
Nein
Ja
Liegen Signale an den Stiften (112) bis (119) von IC8020 an?
Nein
Ja
B
Liegen Signale zwischen (69) bis (73) und (189) bis (192) von IC8020 an?
Nein
IC8020 fehlerhaft oder zugehöriger peripherer Schaltkreis defekt.
Ja
Überprüfung für Videosystem-Schaltkreis (Rot) und seine Peripherieschaltkreise
Liegen Signale an den Stiften (112) bis (119) von IC8020 an?
Nein
Ja
B

FEHLERSUCHTABELLE FÜR PC I/F EINHEIT-4

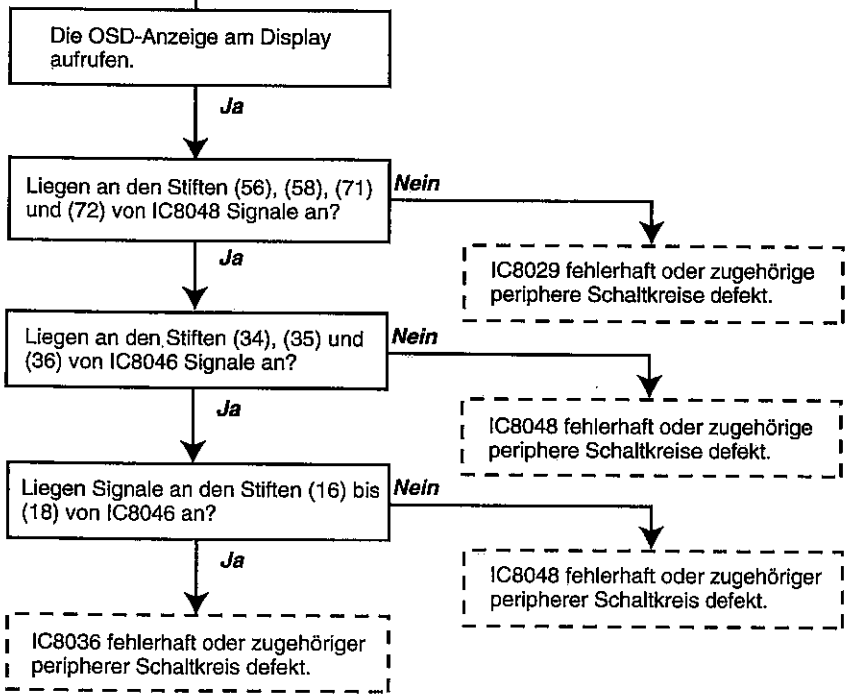

Überprüfung für S-VGA-Videoschaltkreis (Grün) und seine Peripherieschaltkreise
Überprüfung für VGA-Videoschaltkreis (Grün) und seine Peripherieschaltkreise
Liegt ein Signal am Stift (8) von IC8004 an?
Liegen Signale am Stift (8) von IC8004 an?
Nein
Ja
LCP-Schaltkreis defekt.
Liegt ein Signal an der Basis von Q8006 an?
Liegen Signale an der Basis von Q8006 an?
IC8004 fehlerhaft oder zugehöriger peripherer Schaltkreis defekt.
Liegt ein Signal am Stift (6) von IC8010 an?
Liegen Signale am Stift (6) von IC8010 an?
Q8006 und Q8007 fehlerhaft oder zugehöriger peripherer Schaltkreis defekt.
Liegen an den Stiften (21) bis (27) und (33) bis (40) von IC8010 Signale an?
Liegen Signale an den Stiften (112) bis (119) von IC8020 an?
IC8010 fehlerhaft oder zugehöriger peripherer Schaltkreis defekt.
Liegen an TL45 und TL47 Signale an?
IC8025 fehlerhaft oder zugehöriger peripherer Schaltkreis defekt.
Liegen an den Stiften (179) bis (187) von IC8020 Signale an?
IC8020 fehlerhaft oder zugehöriger peripherer Schaltkreis defekt.
Liegen Signale an den Stiften (11) bis (20) von IC8051 an?
IC8029 oder ihre periphere Schaltung defekt.
Liegen Signale an den Stiften (5) und (6) des CON4 (P8405)-Steckverbinders an?
IC8051 oder ihre periphere Schaltung defekt.
CON4 (P8405)-Steckverbinder oder Ausgangsplatine defekt.
Überprüfung für Videosystem-Schaltkreis (Grün) und seine Peripherieschaltkreise
Liegen Signale an den Stiften (185) bis (177) von IC8020 an?
C
C

FEHLERSUCHTABELLE FÜR PC I/F EINHEIT-5

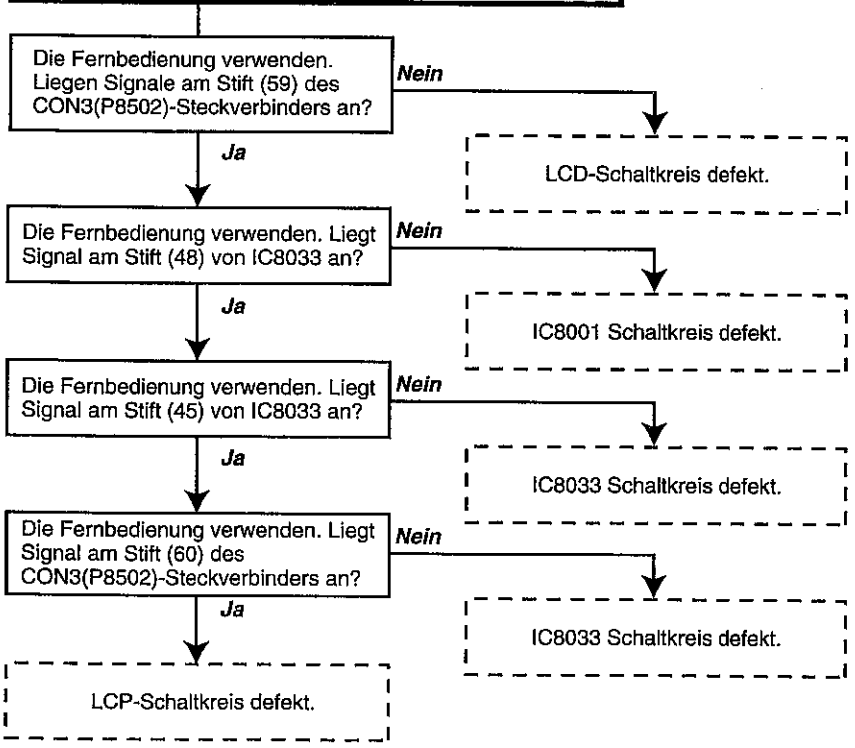

Überprüfung für S-VGA-Videoschaltkreis (Blau) und seine Peripherieschaltkreise
Liegt ein Signal am Stift (3) von IC8004 an?
Nein
Ja
LCP-Schaltkreis defekt.
Liegt ein Signal an der Basis von Q8004 an?
Nein
Ja
IC8004 fehlerhaft oder zugehöriger peripherer Schaltkreis defekt.
Liegt ein Signal am Stift (6) von IC8009 an?
Nein
Ja
Q8004 und Q8005 fehlerhaft oder zugehöriger peripherer Schaltkreis defekt.
Liegen an den Stiften (21) bis (27) und (33) bis (40) von IC8009 Signale an?
Nein
Ja
IC8009 fehlerhaft oder zugehöriger peripherer Schaltkreis defekt.
Liegen an TL48 und TL49 Signale an?
Nein
Ja
IC8020 fehlerhaft oder zugehöriger peripherer Schaltkreis defekt.
Überprüfung für VGA-Videoschaltkreis (Blau) und seine Peripherieschaltkreise
Liegen Signale am Stift (3) von IC8004 an?
Nein
Ja
Liegen Signale an der Basis von Q8006 an?
Nein
Ja
Liegen Signale am Stift (6) von IC8009 an?
Nein
Ja
Liegen Signale an den Stiften (112) bis (119) von IC8020 an?
Nein
Ja
D
Liegen an den Stiften (74) bis (83) von IC8020 Signale an?
Nein
Ja
IC8020 fehlerhaft oder zugehöriger peripherer Schaltkreis defekt.
Liegen Signale an den Stiften (21) bis (30) von IC8051 an?
Nein
Ja
IC8018 oder ihre periphere Schaltung defekt.
Liegen Signale an den Stiften (1) und (2) des CON4 (P8405)-Steckverbinders an?
Nein
Ja
IC8051 oder ihre periphere Schaltung defekt.
CON4 (P8405)-Steckverbinder oder Ausgangsplatine defekt.
Überprüfung für Videosystem-Schaltkreis (Blau) und seine Peripherieschaltkreise
Liegen Signale an den Stiften (85) bis (93) von IC8020 an?
Nein
Ja
D

FEHLERSUCHTABELLE FÜR PC I/F EINHEIT-6

Überprüfung für OSD-Schaltkreis und seiner Peripherieschaltkreise


Die OSD-Anzeige am Display aufrufen.
Ja
Liegen an den Stiften (56), (58), (71) und (72) von IC8048 Signale an?
Nein
IC8029 fehlerhaft oder zugehörige periphere Schaltkreise defekt.
Ja
Liegen an den Stiften (34), (35) und (36) von IC8046 Signale an?
Nein
IC8048 fehlerhaft oder zugehörige periphere Schaltkreise defekt.
Ja
Liegen Signale an den Stiften (16) bis (18) von IC8046 an?
Nein
IC8048 fehlerhaft oder zugehöriger peripherer Schaltkreis defekt.
Ja
IC8036 fehlerhaft oder zugehöriger peripherer Schaltkreis defekt.

Überprüfung der Fernbedienung



保养维修人员须知

紫外线辐射注意事项

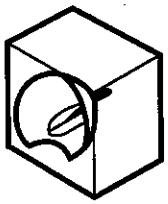
本液晶投影机的光源—金属检卤灯使用时会产生少量的紫外线辐射。

防止眼睛和皮肤的直接曝射

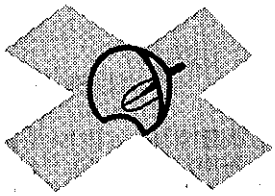
为保证安全，务请遵守下列注意事项：

1. 揭去投影机顶盖并打开金属检卤灯进行检查维修时，务请戴用太阳墨镜。

2. 切勿随意修弄金属检齿灯灯室外壳。



3. 揭去投影机顶盖的保养维修不得超过 2 小时以上。



紫外线辐射与中压灯的注意事项

1. 更换中压灯前，请先拔除电源插头。
2. 保养维修该装置前，请先让其冷却一小时以上。
3. 更换中压灯只得用同类型号者:
   型号 CLMPF0057DE03 或 BQC-XGNV51XE1，额定值 75V/180W。
4. 该灯点亮时有少量紫外线辐射发生、切勿直接曝照裸眼。
5. 中压灯有引起爆炸之危险。安装，保养及维修时，务请按下述要求谨慎处理之。

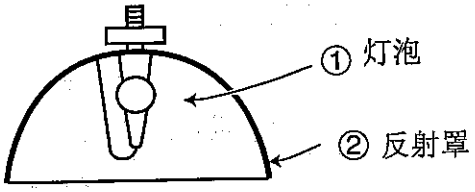
■ 金属检卤灯的更换

注意:

该灯于点亮时所达温度极高。因此，更换该灯至少应在关灯后一小时再进行。（让该灯充分冷却。）

用手安装新灯时，只得抓握检卤灯反射罩②进行安装，切勿用手触碰灯泡电珠。

［更换新灯只得用规定正品。］



危险！ 一没安装金属检卤灯时，不得打开电源开关。因为引入电源后，稳压器便随即发生极高的电压，足以引起人身高压触电或装置损坏的危险。

揭开机壳进行维修时，少量的紫外线可从导管盖和灯室间的开口处辐射而出。因此，必须用镜头盖按下图（图1）所示遮住导管盖和灯室间的开口，以防紫外线辐射造成眼睛或皮肤的受伤。

注意：对未附带镜头盖的型号 XG-NV51XE/XM/XA，作保养及检修时，必须先准备镜头盖，盖上后进行之。

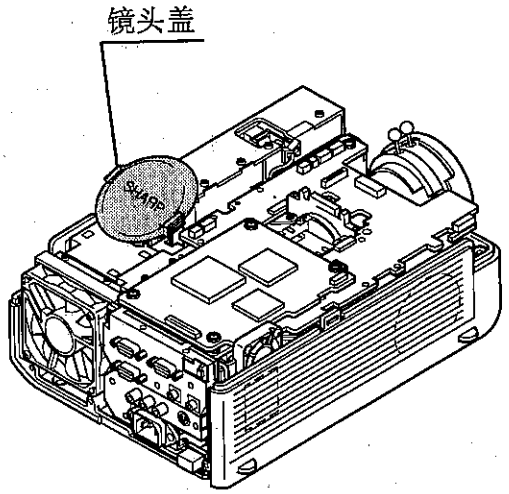


图 -1

規格

產品類型	液晶投影機
型號	XG-NV5XE/XM/XA
制式	PAL/SECAM/NTSC 3.58/NTSC 4.43
顯示方法	3塊液晶板，RGB三色光學遮板方法
液晶顯示板	尺寸：22.9毫米（0.9英寸）（13.9[高]×18.5[寬]毫米） 顯示方法：半透明TN液晶板 驅動方法：TFT（薄膜晶管體）活性矩陣板 像素數目：786,432點（1,024[水平]×768[垂直]）
鏡頭	1～1.3變焦鏡頭，F1.7至2.0，f=33至43毫米
投影燈泡	交流180瓦燈泡
反差比	200:1
視頻輸入訊號	RCA連接器：視頻，混合視頻，峰間值1.0伏，負同步，75歐姆終端 RCA連接器：聲頻，0.5伏有效值，大於22千歐姆（立體聲）
S-視頻輸入訊號	4芯小型DIN連接插頭 Y（亮度訊號）：峰間值1.0伏，負同步，75歐姆終端 C（色度訊號）：脈衝峰間值0.286伏，75歐姆終端
水平解像度	580電視線（視頻輸入），700電視線（S-視頻輸入）
聲頻輸出	2瓦（單聲道）
電腦RGB輸入訊號	*視頻訊號* 15芯小型D-sub連接插頭（電腦輸入端口1，2）： 紅綠藍（RGB）分離/混合同步/綠同步型類比輸入： 峰間值0～0.7，正極，75歐姆終端 立體聲小型插頭：聲頻，0.5伏有效值，大於22千歐姆（立體聲） 水平同步訊號：TTL電平（正極/負極）或混合同步（僅限Apple電腦） 垂直同步訊號：同上
電腦輸入訊號	9芯D-sub凸型連接插頭（RS-232C輸入端子）
喇叭系統	3 3/32英寸（8厘米）圓形
電壓	交流110～120/220～240伏
輸入電流	2.6安/1.3安
額定頻率	50/60赫
耗電量	290瓦
工作溫度	攝氏5度～40度
儲藏溫度	攝氏零下20度～60度
外殼	塑膠
I/R載波頻率	40千赫
遙控器輻射指示器	*波長*：670毫微米 *最大輸出*：1毫瓦 II級鐳射產品
尺寸（約）	229×121×310毫米（寬×高×深）（僅主體） 243.5×128×337毫米（寬×高×深）（包括調校器臂和投影零件）
重量（約）	4.9公斤
隨機附件	“Power”（強勁）遙控器、簡單講演遙控器、4枚AA型電池、2枚AAA型電池、交流電源線、電腦連接線（3米）、電腦聲頻連接線（3米）、Macintosh轉接器、滑鼠控制串列連接線（1米）、用於IBM PS/2的滑鼠控制連接線（1米）、用於Mac的滑鼠控制連接線（17厘米）、遠程滑鼠接收器、後備空氣過濾網、鏡頭蓋（已裝上）、攜帶包、光碟、液晶投影機使用説明書、液晶投影機速查手冊、SHARP高級講演軟體使用説明書、SHARP高級講演軟體速查手冊、IrDA驅動器安裝指示書
替換零件	“Power”（強勁）遙控器（RRMCG1471CESA）、簡單講演遙控器（RRMCG1480CESA）、AA型電池、AAA型電池、交流電源線、電腦連接線（QCNW-5108CEZZ）、電腦聲頻連接線（QCNW-4870CEZZ）、Macintosh轉接器（QPLGJ1512CEZZ）、滑鼠控制串列連接線（QCNW-5112CEZZ）、用於IBM PS/2的滑鼠控制連接線（QCNW-5113CEZZ）、用於Mac的滑鼠控制連接線（QCNW-5114CEZZ）、遠程滑鼠接收器（RUNTK0661CEZZ）、空氣過濾網（PFILD0076CEZZ）、鏡頭蓋（GCOVH1307CESA）、攜帶包（GCASN0001CESA）、光碟、液晶投影機使用説明書、液晶投影機速查手冊、SHARP高級講演軟體使用説明書，SHARP高級講演軟體速查手冊、IrDA驅動器安裝指示書

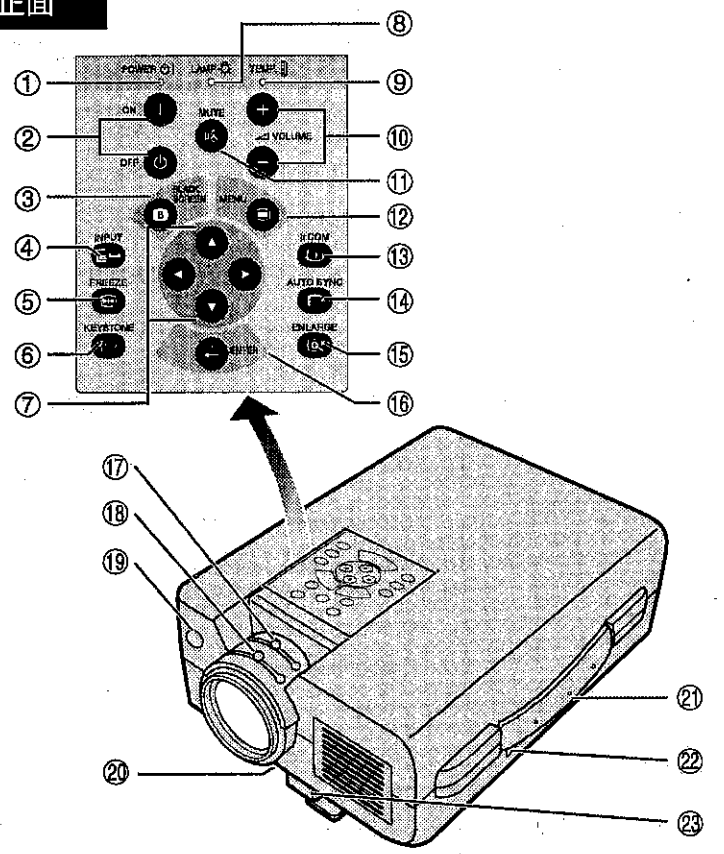
本投影機使用LCD（液晶顯示）板。這些非常精密的顯示板每塊都含有786,432像素（×RGB）個TFT（薄膜電晶體）。
任何高技術電子設備，如大屏幕電視機、錄像系統及攝像機等，都有該設備必須符合的一定誤差範圍存在。本投影機在一定的容許範圍之內也有若干不起作用的TFT，即可能在屏幕上造成亮點或不起作用的黑點。這並不影響影像品質或投影機的使用壽命。

規格參數若有變更，恕不另行通知。

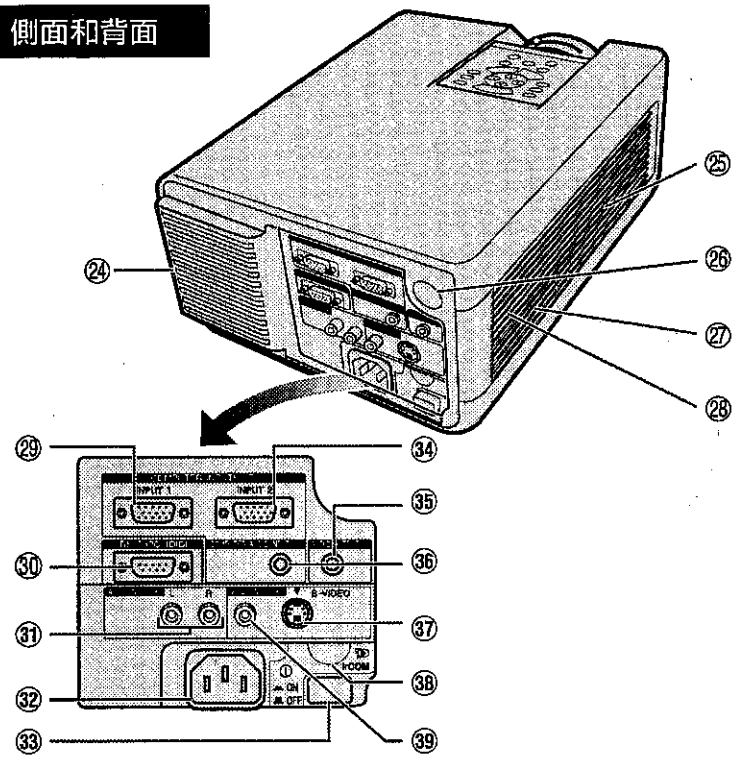
控制按鈕的位置

投影機

正面



側面和背面



① 電源指示燈
② 電源按鈕（開/關）（ON/OFF）

③ 黑屏幕按鈕（BLACK SCREEN）

④ 輸入選擇按鈕（INPUT SELECT）

⑤ 靜止按鈕（FREEZE）
⑥ 梯形失真按鈕（KEYSTONE）

⑦ 調校按鈕（▲/▼/◀/▶）

⑧ 燈泡更換指示燈
⑨ 温度警告指示燈
⑩ 音量按鈕（VOLUME +/－）

⑪ 消音按鈕（MUTE）
⑫ 項目選擇按鈕（MENU）

⑬ 紅外端口按鈕（IrCOM）
⑭ 自動同步按鈕（AUTO SYNC）

⑮ 放大按鈕（ENLARGE）
⑯ 輸入按鈕（ENTER）

⑰ 變焦環
⑱ 聚焦環
⑲ 遙控器感應器
⑳ 空氣過濾器 /冷卻風扇（入風口）
㉑ 攜帶手柄
㉒ 肯辛頓保安標準連接器
㉓ 調校腳釋放鈕
㉔ 冷卻風扇（出風口）
㉕ 喇叭
㉖ 遙控器感應器
㉗ 冷卻風扇（入風口）
㉘ 空氣過濾器
㉙ 電腦輸入1端子（HD-15）

㉚ RS-232C 端子（9芯，D-sub）

㉛ 聲頻輸入端子：RCA
㉜ 交流電源插座
㉝ 主電源開關
㉞ 電腦輸入2端子（HD-15）

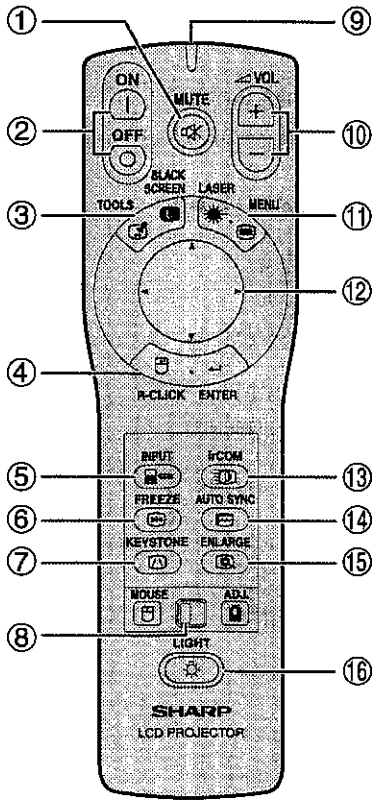
㉟ 聲頻輸出端子（3.5毫米立體聲小型插頭）
㊱ 電腦聲頻輸入端子（3.5毫米立體聲小型插頭）
㊲ S-視頻輸入端子：4芯小型插頭

㊳ 紅外端口（IrCOM）感知器

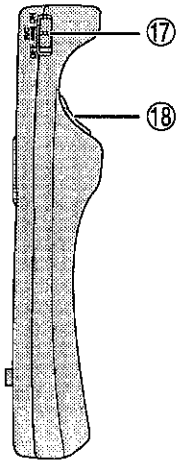
㊴ 視頻輸入端子：RCA

"Power"（強勁）遙控器

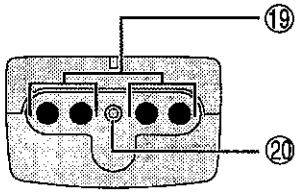
正面



側面



頂部



① 消音按鈕（MUTE）
② 電源按鈕（開/關）（ON/OFF）
③ 黑屏幕/工具按鈕（BLACK SCREEN/TOOLS）

④ 右滑鼠/輸入按鈕（R-CLICK/ENTER）

⑤ 輸入按鈕（INPUT）
⑥ 靜止按鈕（FREEZE）
⑦ 梯形失真按鈕（KEYSTONE）
⑧ 滑鼠/調校轉換開關（MOUSE/ADJ.）

⑨ 遙控訊號發射指示燈
⑩ 音量按鈕（VOL +/−）
⑪ 鐳射指示燈/項目選擇按鈕（LASER/MENU）

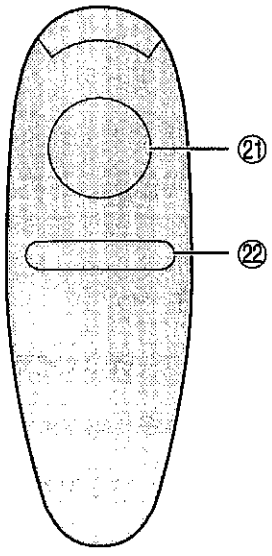
⑫ 滑鼠/調校按鈕（▲/▼/◀/▶）

⑬ 紅外端口按鈕（IrCOM）
⑭ 自動同步按鈕（AUTO SYNC）
⑮ 放大按鈕（ENLARGE）
⑯ 背景光按鈕（LIGHT）
⑰ 主電源開關
⑱ 左滑鼠/後面按鈕（L-CLICK/BACK）

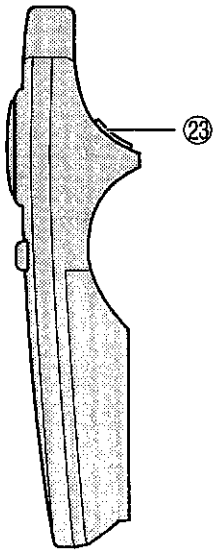
⑲ 遙控訊號發射器
⑳ 鐳射窗口
㉑ 滑鼠按鈕（MOUSE）
㉒ 右滑鼠按鈕（R-CLICK）
㉓ 左滑鼠按鈕（L-CLICK）

簡單講演遙控器

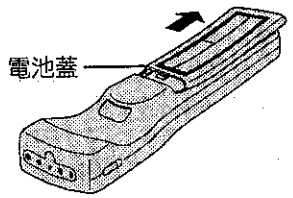
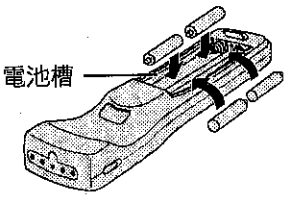
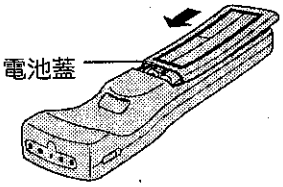
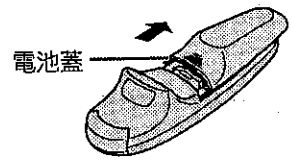
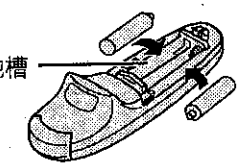
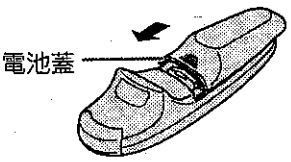
正面



側面



裝入電池

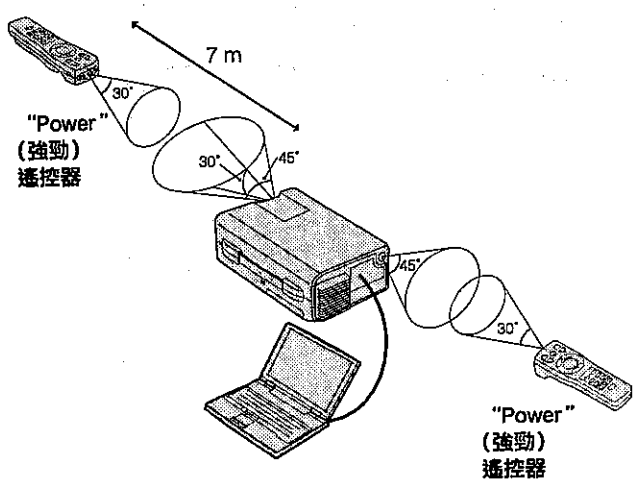
1 向內並向下按壓箭頭所示之處，卸下電池艙蓋。	2 在“Power”（強勁）遙控器內裝入 4 枚 AA 型電池，在簡單講演遙控器內裝入 2 枚 AAA 型電池。務請確認電池裝入時的極性必須與電池艙內之 + 和 − 的標記一致。	3 將電池蓋的側面垂片置於內側，將電池蓋向下壓，直到固定為止。
		
		

- 在如下所示的範圍內可用“Power”（強勁）遙控器操控投影機。
- 在如下所示的範圍內，遙控滑鼠接收器可與“Power”（強勁）遙控器或簡單講演遙控器一起使用，來操控所接駁的電腦的滑鼠功能。

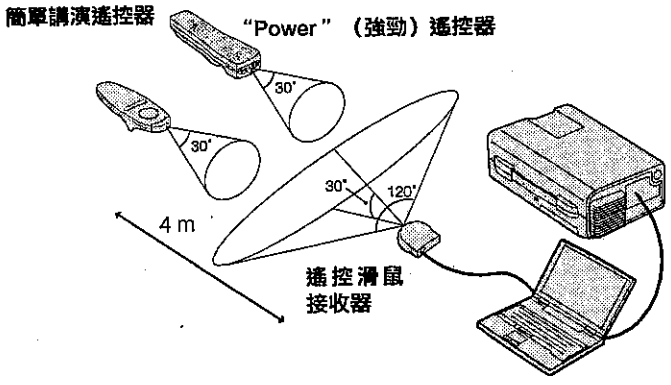
註

- 為便於操控，來自遙控器的訊號也能經由屏幕反射出來。但是，由於屏幕材質之差異，訊號的有效距離也可能會有所不同。

操控投影機

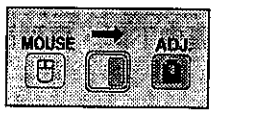


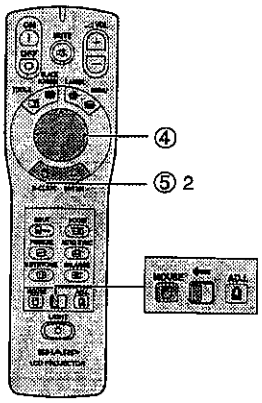
使用無線滑鼠



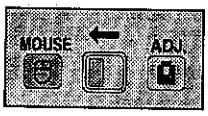
無線滑鼠遙控器的操作說明

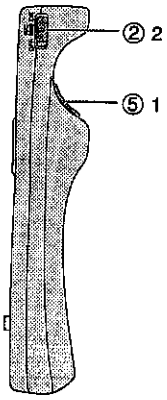
操控投影機控制按鈕時

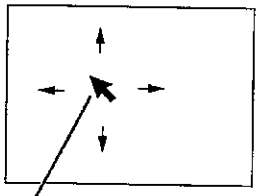




操控無線滑鼠或使用鐳射教鞭時

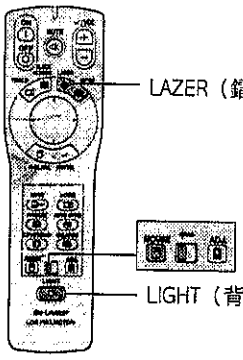






滑鼠遊標

按鈕名稱	MOUSE/ADJ.（滑鼠/調校）開關的位置	
	MOUSE（滑鼠） ⟷ *ADJ.（調校）*	
鐳射指示燈/項目選擇	鐳射指示燈（綠色）	項目選擇（紅色）
黑屏幕 / 工具	黑屏幕(綠色)	工具(紅色)
右滑鼠按鈕/輸入	右滑鼠按鈕（綠色）	輸入（紅色）
滑鼠/調校	滑鼠（不亮）	調校（不亮）
左滑鼠按鈕 / 後面	左滑鼠（不亮）	後面（不亮）
電源開/關	開（紅色）	
音量		
消音		
輸入		
紅外端口		
靜止		
自動同步		
梯形失真		
放大		



"Power"（強勁）遙控器有如下三項功能：
- 操控投影機
- 操控無線滑鼠
- 使用鐳射教鞭

使用這些功能時，請將 **MOUSE/ADJ.**（滑鼠 / 調校）開關撥至相應的 MOUSE（滑鼠）或 ADJ.（調校）的位置。

① 將投影機接駁到電腦上

② 無線滑鼠的操控

1. 將投影機接駁到電腦上之後，先開啟投影機的電源。電腦的電源總在最後才開啟。
2. 將"Power"（強勁）遙控器上的**主電源**開關撥至 ON（開）的位置。

③ 選擇運作模式

要將"Power"（強勁）遙控器用作無線滑鼠時，請將**MOUSE/ADJ.**（滑鼠 / 調校）開關撥至 MOUSE（滑鼠）的位置。

註

- 要用"Power"（強勁）遙控器來操控投影機時，請將**MOUSE/ADJ.**（滑鼠/調校）開關撥至ADJ.（調校）的位置。
- 若電腦的串列埠未能正確設定，則無線滑鼠或RS-232C功能有可能不動作。關於正確設定和安裝滑鼠驅動器的詳情，請參閱電腦的使用說明書。

④ 移動滑鼠的遊標

按"Power"（強勁）遙控器上的 ▲/▼/◀/▶ 來使滑鼠的遊標在屏幕上移動。

註

- 附送的簡單講演遙控器也能用於操控無線滑鼠。

⑤ 用作雙按鈕滑鼠時的滑鼠按鈕使用方法

本無線滑鼠是作為標準雙按鈕滑鼠（台式滑鼠）之用而設計的。

1. "Power"（強勁）遙控器背面的 **L-CLICK**（左滑鼠）按鈕用作標準台式滑鼠的"左按鈕"。
2. "Power"（強勁）遙控器正面的 **R-CLICK**（右滑鼠）按鈕用作標準台式滑鼠的"右按鈕"。

註

- 對於單按鈕滑鼠，可使用**L-CLICK**（左滑鼠）或**R-CLICK**（右滑鼠）中的任意一個按鈕。

使用鐳射教鞭

將 **MOUSE/ADJ.**（滑鼠 / 調校）開關撥至 MOUSE（滑鼠）的位置，然後按 **LASER**（鐳射指示器✷）來啟動鐳射教鞭。當鬆開該按鈕時，鐳射光束自動關閉。

註

- 為安全起見，連續使用1 分鐘後，鐳射指示器會自動熄滅。若想再次開啟，請再次按下**LASER**（鐳射指示器✷）按鈕。

在很暗的房間裡使用"Power"（強勁）遙控器

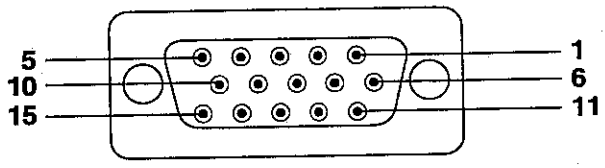
"Power"（強勁）遙控器具有背景光功能。按下 **LIGHT**（背景光）時，遙控按鈕點亮。綠光表示滑鼠操控，紅光表示投影機調校。

註

- 若"Power"（強勁）遙控器上之**主電源**開關處於開啟狀態，而未操控之持續時間超過1 0 分鐘，則電源即會自動關閉。若要重新開啟電源，可以按下遙控器上之任意一個按鈕持續時間超過一秒鐘。

連接芯的作用

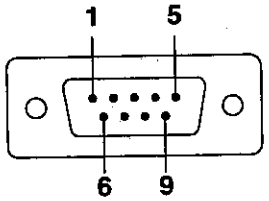
類比電腦1和2訊號輸入端子: 15芯小型D-sub凹型接頭



電腦輸入
類比

1. 視頻輸入（紅）
2. 視頻輸入（綠色 / 綠同步）
3. 視頻輸入（藍）
4. 備用輸入1
5. 混合同步
6. 地面（紅）
7. 地面（綠）
8. 地面（藍）
9. 沒有連接
10. GND
11. GND
12. 雙向資料
13. 水平同步訊號
14. 垂直同步訊號
15. 數據時鐘

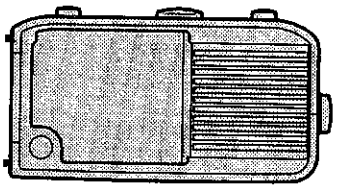
RS-232C端子: 9芯D-sub凸型接頭



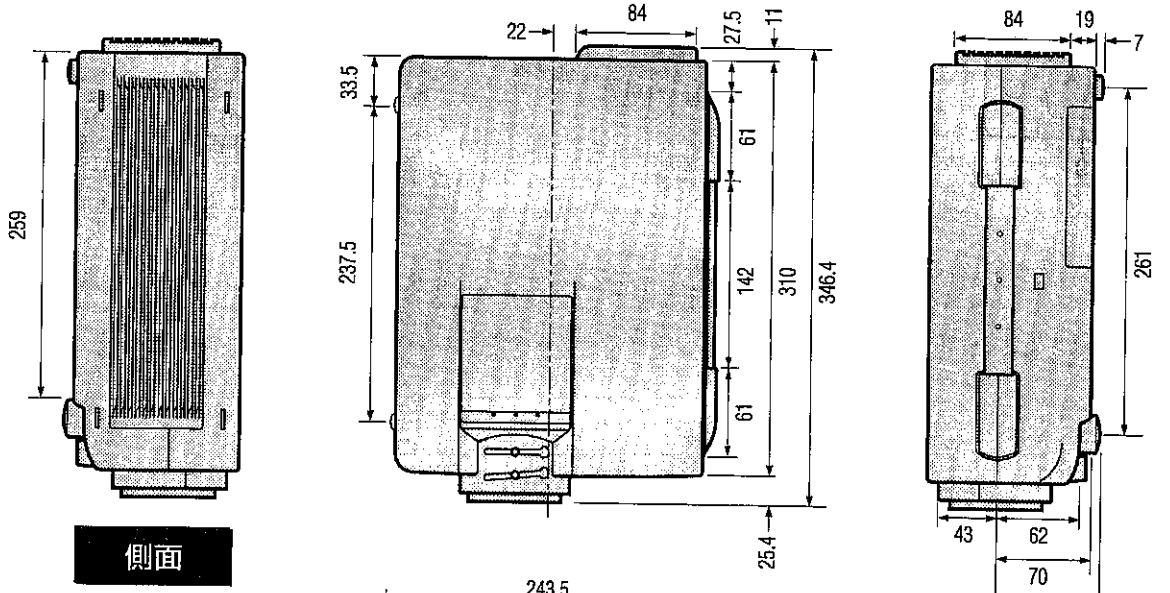
芯號	訊號	名稱	輸入/輸出	備註
1	CD			沒有連接
2	RD	接收數據	輸入	和內部電路相接
3	SD	傳送數據	輸出	和內部電路相接
4	ER			沒有連接
5	SG	訊號地面		和內部電路相接
6	DR	數據設定準備完畢	輸出	沒有連接
7	RS	要求傳送	輸出	和內部電路相接
8	CS			沒有連接
9	CI			沒有連接

外型尺寸

背面

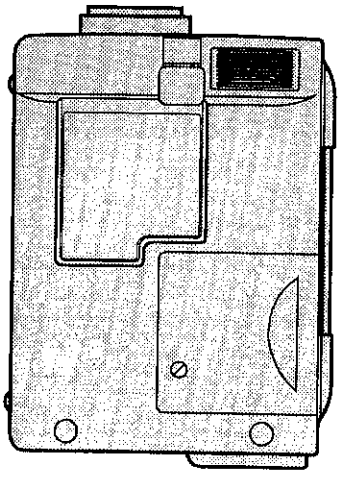


頂部



側面

前面



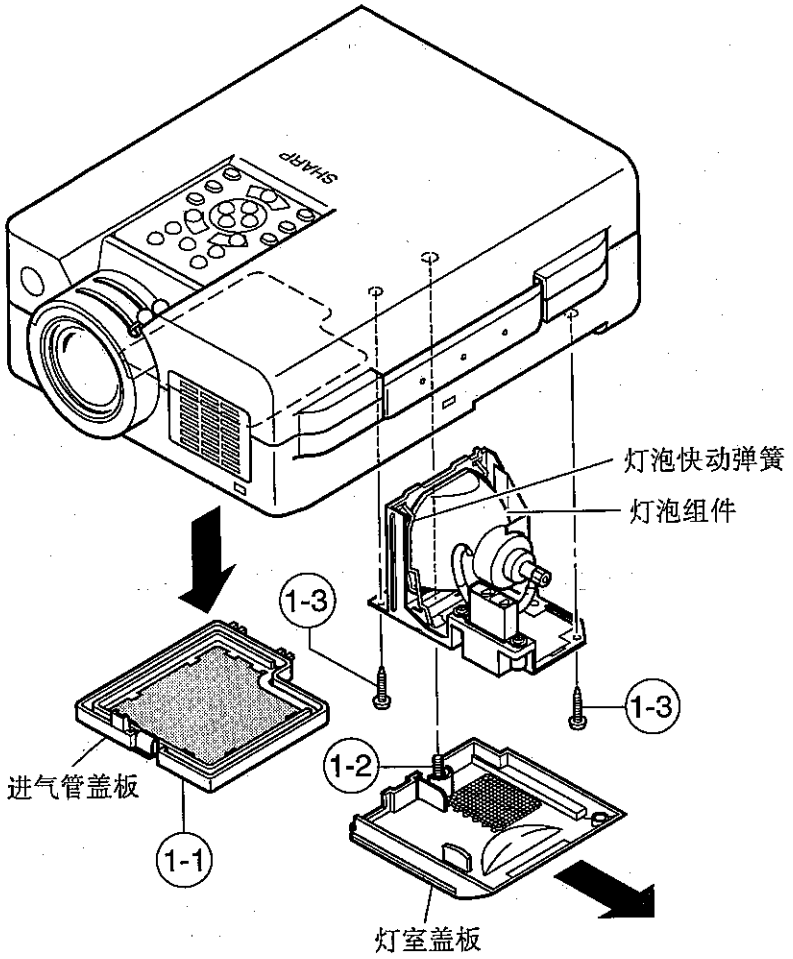
底部

單位：毫米

主要部件的拆卸

1. 进气管盖板和灯泡组件的拆卸

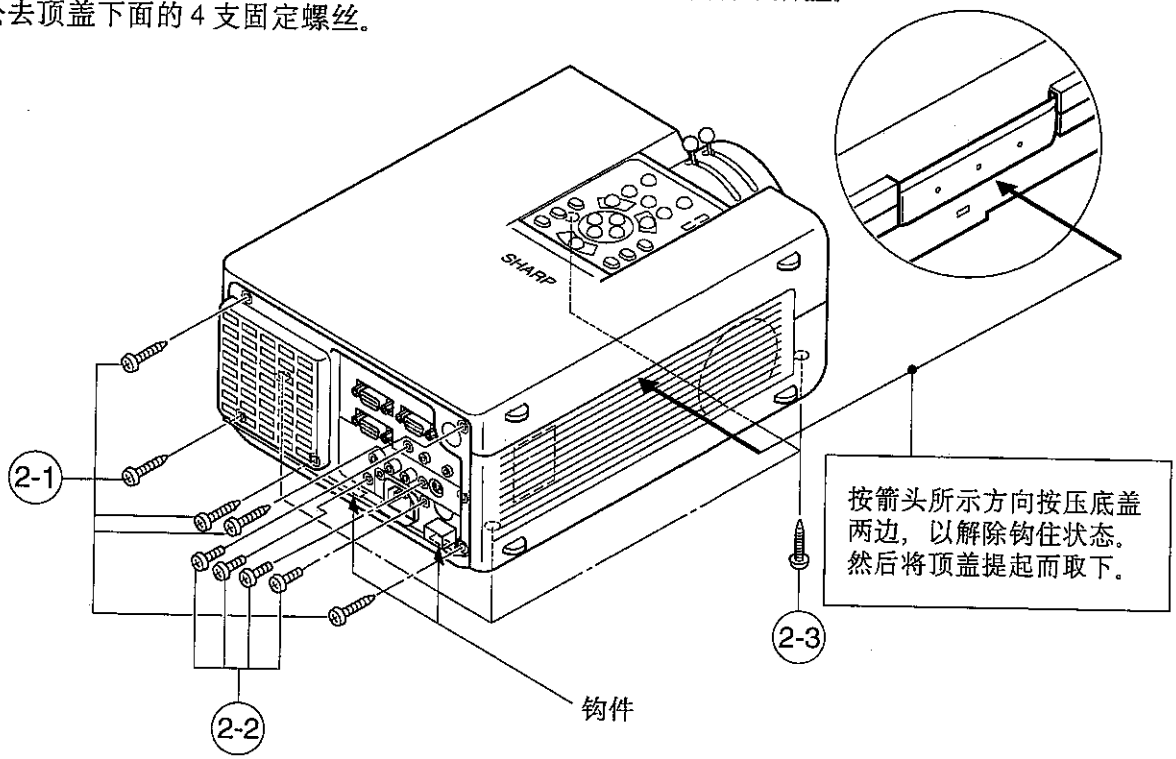
1-1. 取下进气管盖板。
1-2. 松去灯室盖板上的 1 支固定螺丝，按箭头所示方向取下灯室盖板。
1-3. 松去灯泡组件上的两支固定螺丝，取下灯泡组件。



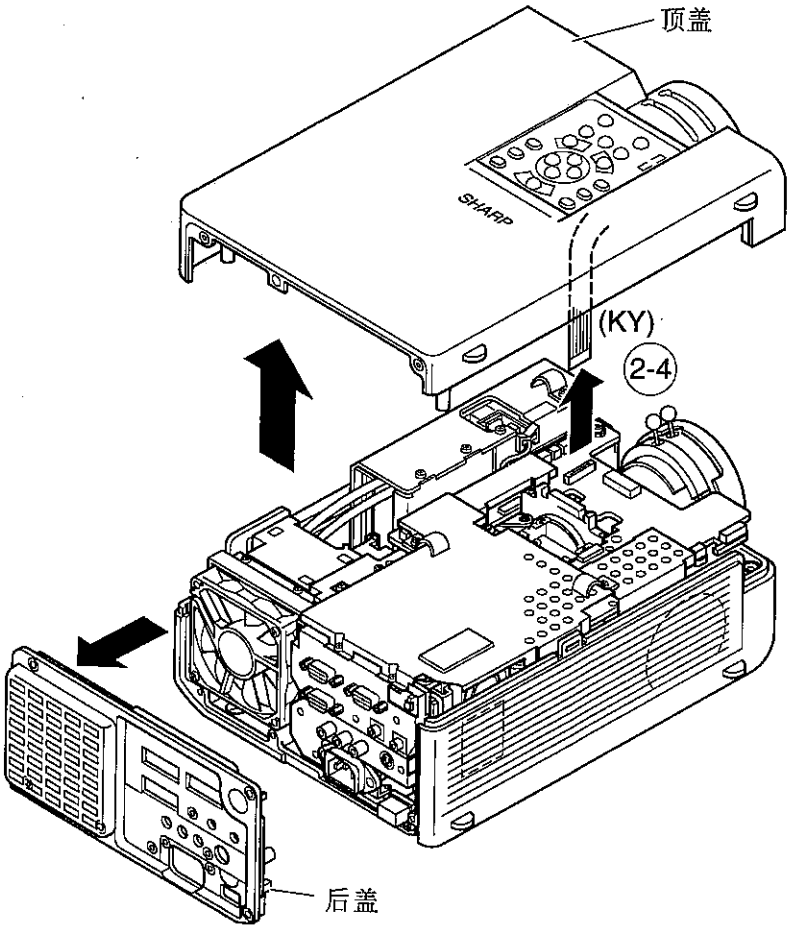
注意：
更换灯泡时，必须检查接线端与灯泡快动弹簧（或者与其它金属部件之间）之间有无 8mm 以上的间隙。

2. 顶盖和后盖的拆卸

2-1. 松去后盖上的 5 支固定螺丝。
2-2. 松去固定接线端子板与后盖的 4 支固定螺丝，然后从下面拆下后盖。
2-3. 松去顶盖下面的 4 支固定螺丝。

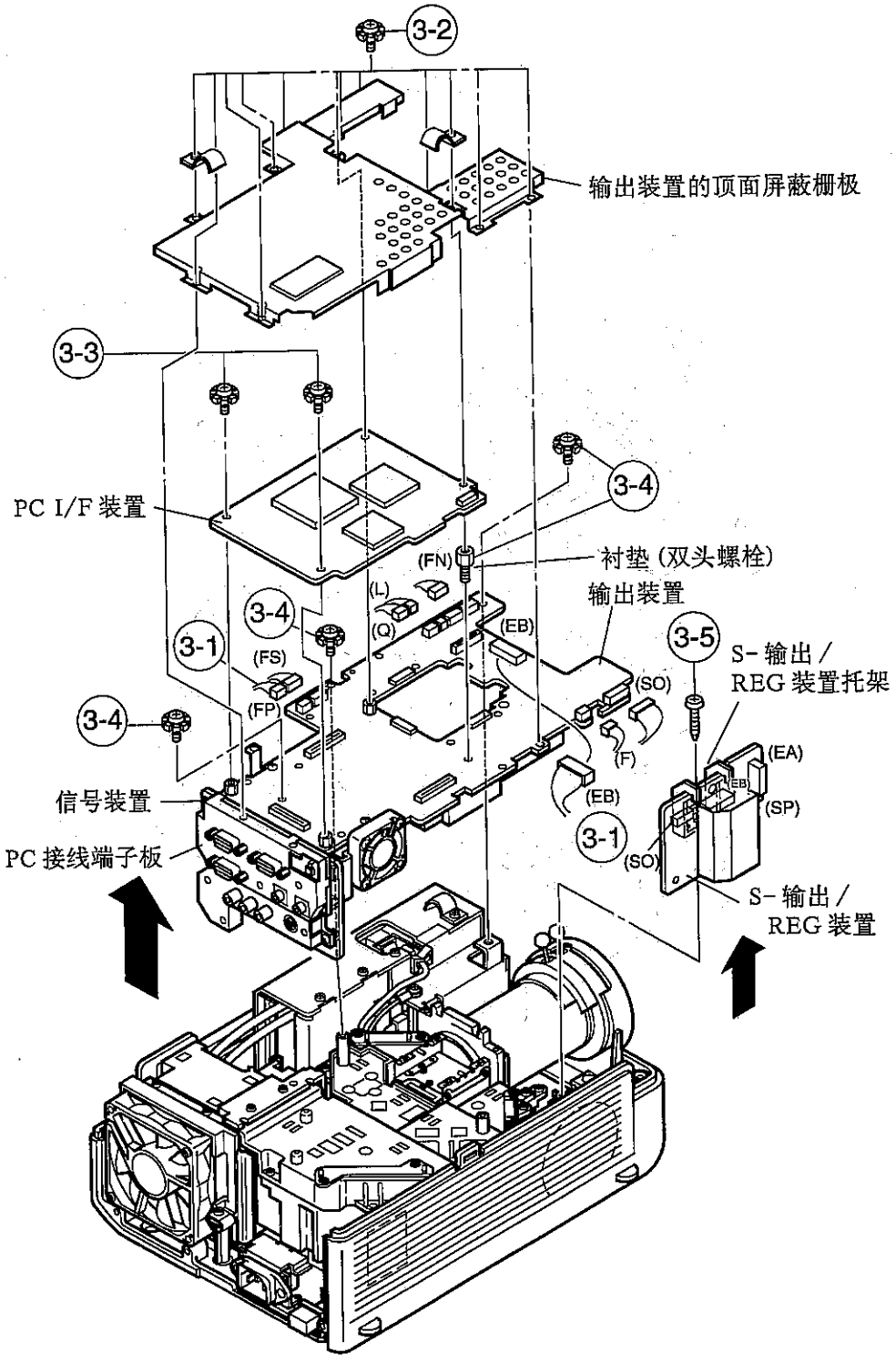


2-4. 缓慢地提起顶盖，拆下操作键钮装置的插接器（KY）。然后取下顶盖。



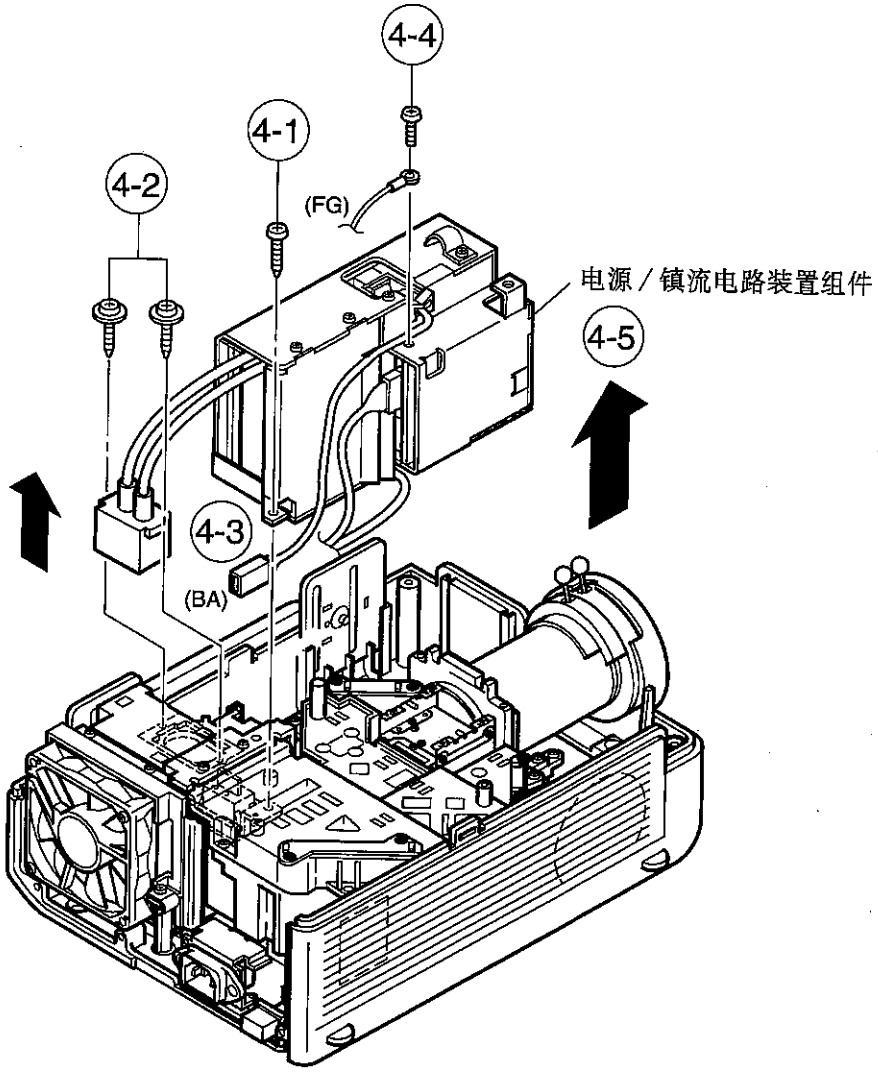
3．各印刷电路板的拆卸

3-1．拆下插接器。
3-2．松去 12 支固定螺丝，拆下输出装置的顶面屏蔽栅极。
3-3．松去两支固定螺丝，拆下 PC I/F 装置。
3-4．松去两支固定螺丝，拆下隔板（地脚螺栓）。提起装置组件，取下之
3-5．松去 S- 输出 /REG 装置托架上的 1 支固定螺丝，取下 S- 输出 /REG 装置。



4. 电源／镇流电路装置组件的拆卸

4-1. 松去电源／镇流电路装置组件上的 1 支固定螺丝。
4-2. 松去灯泡管座支架上的两支固定螺丝，取下该支架。
4-3. 松开镇流电路装置与插接器（BA）的连接。
4-4. 松去导线（FG）的 1 支固定螺丝。
4-5. 提起电源／镇流电路装置组件，取出该组件。

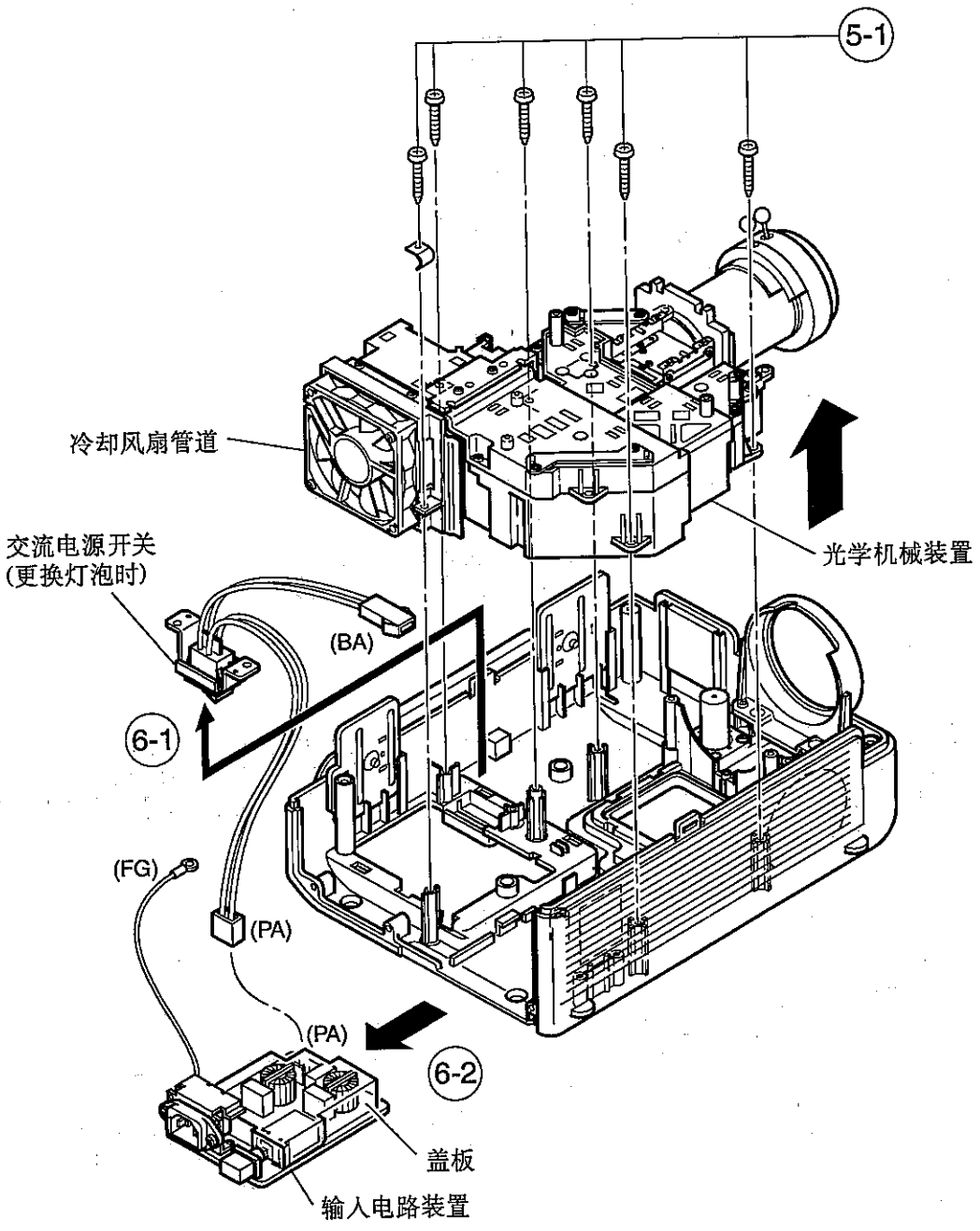


5. 光学机械装置上的拆卸

5-1. 松去光学机械装置上的 6 支固定螺丝，然后将该装置提起而取下。

6. 镇流电路装置和输入电路装置的拆卸

6-1. 松开输入电路装置与插接器（PA）的连接，取出交流电源开关。
6-2. 按箭头所示方向拉出输入电路装置，取下之。
注意：安装灯室盖板之前，必须检查交流电源开关是否置于“ ○ ”（关闭）位置。

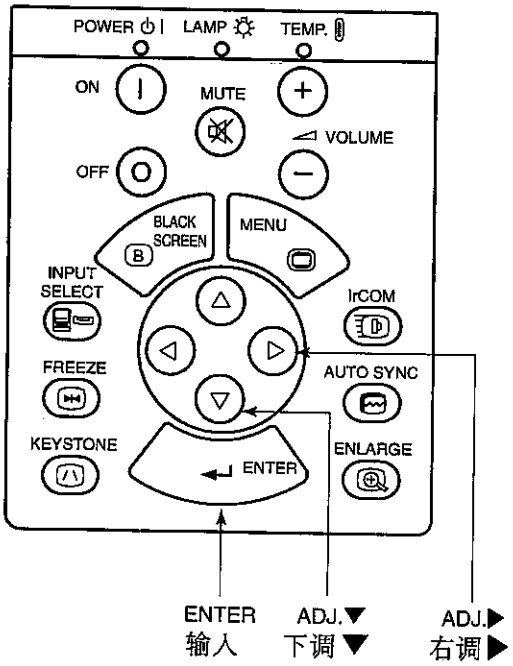


总灯定时器复位

总灯更换后，请按下述步骤对其定时器进行复位调整。

复位步骤

1. 同时按下投影机上的“ENTER”（输入），“ADJ.▼”（下调）和“ADJ.▶”（右调）三键，打开主电源开关（位于AC电源输入插孔之上）。
2. 总灯定时器复位至0，屏幕上表示出“000H”字样。



燈泡

本投影機的燈泡之使用壽命與使用環境有關，大約為累計1,500小時。如果燈泡已經使用了1,400小時，燈泡更換指示燈會以紅色亮起，屏幕上的“LAMP”（燈泡）字樣會以黃色閃爍。建議燈泡累計使用1,400小時後，或者注意到影像和彩色的品質有明顯的下降時，應該更換燈泡。在這種情況下，應將投影機拿到附近獲得授權的SHARP工業液晶產品經銷商或維修中心更換燈泡。

⚠ 注意

- 強光是很危險的。切勿在投影機開動、正在工作著的時候去窺視燈孔及鏡頭。

註

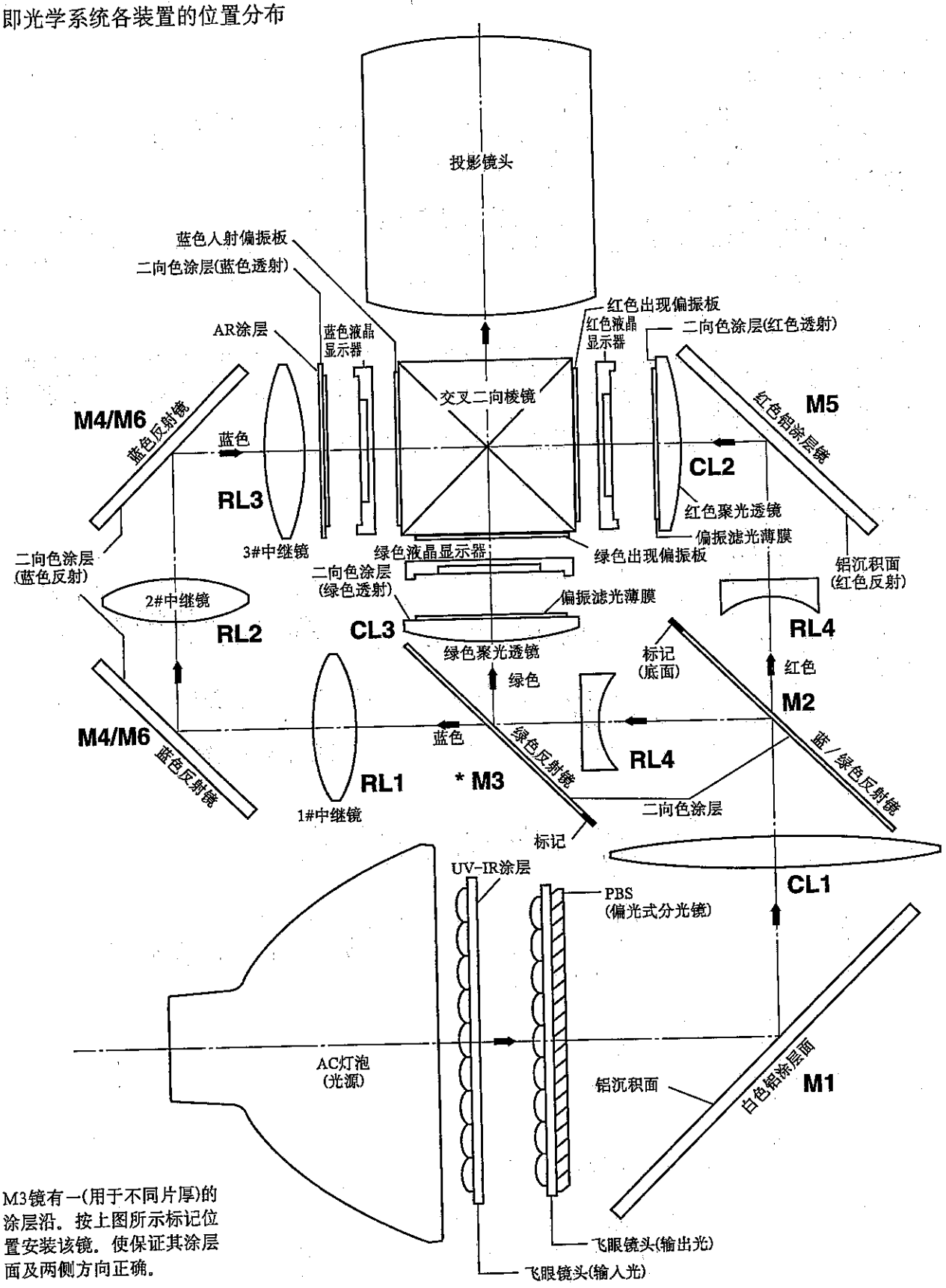
- 燈泡使用時間可以透過屏幕顯示來進行測定 。
- 因為使用環境的變化很大，投影機燈泡之累計工作時間有可能達不到1,500小時。

狀況	問題	對策
燈泡更換指示燈以紅色點亮，並且“LAMP”（燈泡）和“■”將在影像左下角以黃色閃爍。	• 燈泡的使用時間超過1,400小時。	• 請將投影機帶到附近獲得授權的SHARP工業液晶產品經銷商或維修中心代為更換燈泡。
出現影像和色彩品質的明顯退化。		
電源將自動關閉，並且投影機將進入待機狀態。	• 燈泡的使用時間超過1,500小時。	
“LAMP”（燈泡）和“■”將在影像的左下角以紅色閃爍，並且電源將會關閉。		

光学装置概要

光学系统的分布图

注：即光学系统各装置的位置分布



* M3镜有一(用于不同片厚)的涂层沿。按上图所示标记位置安装该镜。使保证其涂层面及两侧方向正确。

会聚及焦点的调整

● 此项调整应在拆下顶面板并打开电源开关之状态下进行。图像调整用遥控器进行。调整步骤如下所示。

1. 调整投影镜头的焦点

(A)更换 3 原色液晶显示板

1. 在更换全部原色液晶显示板之前，先在屏幕上投影一个图像，并调准其焦点。
2. 拆去全部旧的原色液晶显示板，用新品更换之，并调整其焦距。调整过程中，不应变化投影机与屏幕间的距离，也不应转动投影镜头及其变焦环。

注意:

如焦距调整用的距离关系不一，投影距离与屏幕尺寸的关系则会受到影响。也就是说，短距离投影图像（例如，40WIDE）可能会超出焦距范围，或者长距离投影图像（例如，300WIDE）可能会不达焦距范围。

(B)更换 3 原色液晶显示板中的一片或两片

1. 更换一片或二片原色液晶显示板后调整焦距之场合，先在屏幕上投影一个图像，并调准其焦点。
2. 更换新品原色液晶显示板后，再进行焦距调整。调整过程中，不应变化投影机与屏幕间的距离，也不应转动投影镜头及其变焦环。
3. 如上述距离或投影镜头被变动，则需重复上述 1 和 2 之步骤。

2. 焦点调整

(A)绿色液晶显示板的调整（此项调整在全白屏幕上进行）

1. θ X 和 Z 方向的调整

松开锁紧螺丝 “a”，插偏头螺磁刀于槽孔 “a” 之中。施转此螺丝刀进行调整节，让屏幕顶边，纵向中心以及底边焦点清晰。这时，施紧锁紧螺丝 “b” 和 “c” 固定 θ Y 方向的调整。

先保持左右两半焦点的平衡，然后边进行下列 2. 的调整边堤高焦点准确度。

2. θ Y 方向的调整

先临时施紧锁紧螺丝 “a”，然后再松开锁紧螺丝 “a” 和 “c”，接着插偏头螺丝刀于槽孔 “c” 之中，以便调整屏幕顶边焦点的 θ Y 方向。

3. 重复上述 1，2 步骤，直至对焦精调完成为止。之后，施紧所有锁紧螺丝。

注意:

① 焦点调整必须谨慎进行，因为各方向的调整均是相互影响的。

② 会骤和对焦调整过程中，切勿转动投影镜头的变焦环和对焦环。

(B)蓝色液晶显示板的调整（按与红色液晶显示板的调整相同进行）

1. 调整步骤与绿色液晶显示板的焦点调整相同，但 Z 方向的调整范围较小。此外，蓝色与绿色液晶显示板间会聚差异较大时，则需先调会聚后调焦点。

3. 焦点调整

● 用棋盘格图案信号进行此项调整。

此项调整应用绿色或与其有关彩色来进行。

1. 松开锁紧螺丝 “d”。
2. Y 和 θ Z 方向的调整

插六角板手于 Y 和 θ Z 方向的调整部位之中进行调整。

3. X 方向的调整

插偏心凸轮调整板手于 X 方向的调整部位之中进行调整。

4. 以绿色液晶显示板在屏幕的中心为基准，调整红色和蓝色液晶显示板。
5. 达至要求后，施紧会聚锁紧螺丝 “d”。

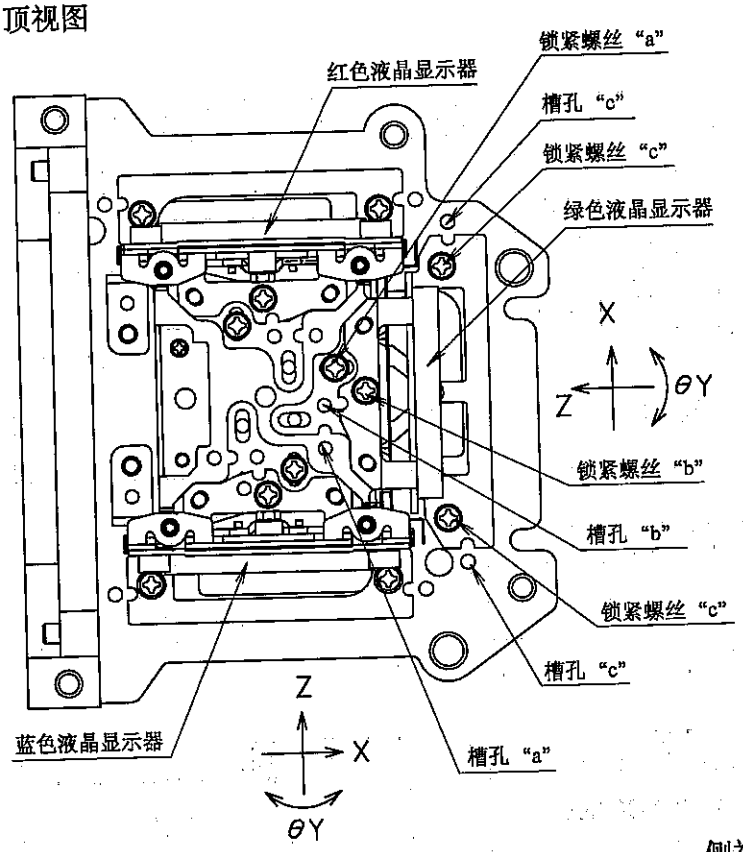
注意:

① 偏心凸轮在会聚调整中起了作用。这便意味其施转及移动非均匀。

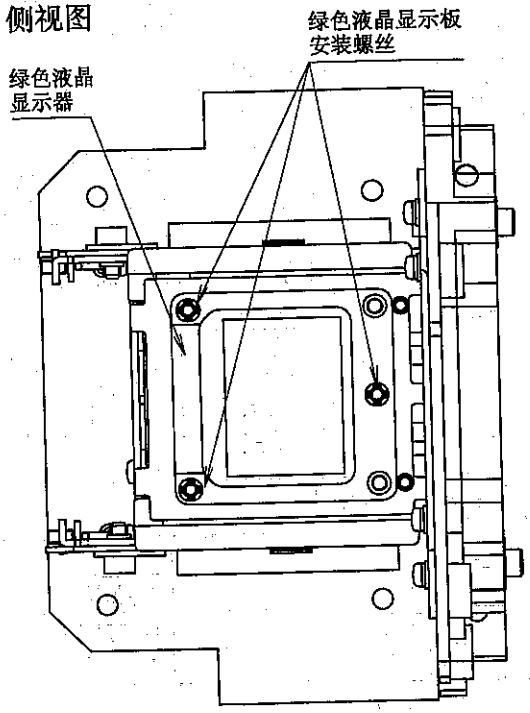
② 本投影机没有装备液晶成象过程中使用了二向色涂屋技术。各原色液晶显示板的达到最佳焦距调整状态时，成像自动会聚完成。

会聚和焦头调整的机构

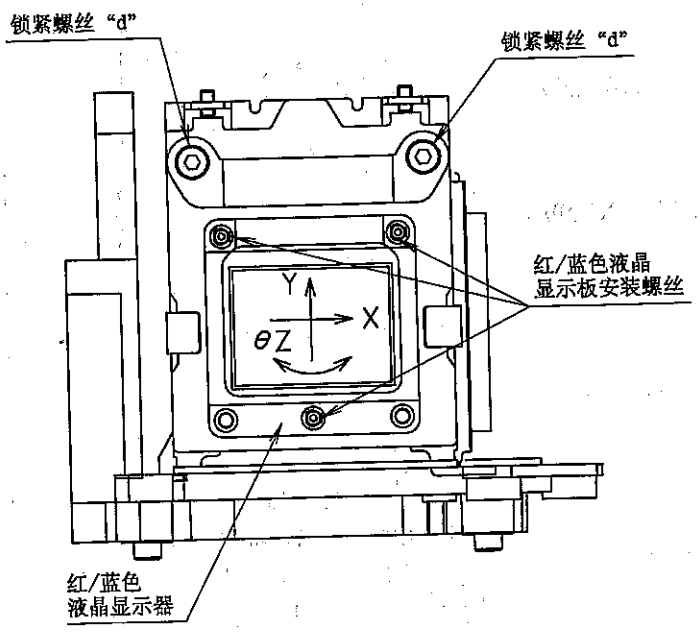
顶视图



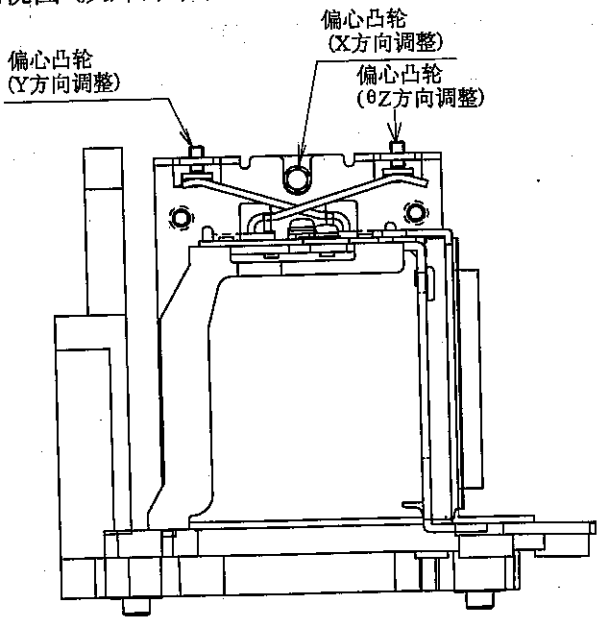
侧视图



侧视图 (从内部来看)



侧视图 (从外部来看)



会聚度和焦点的初看调整

调整方向

调整	方向	说明	液晶显示板的方向
会聚度	X 方向		左右
	Y 方向		上下
	θZ 方向	绕 Z 轴施转	施转轴
焦点	Z 方向		光学轴
	θX 方向	绕 X 轴施转	上至下拍打
	θY 方向	绕 Y 轴施转	左至右拍打

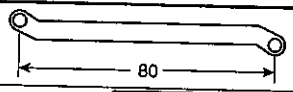
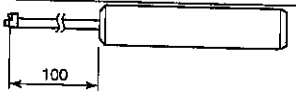
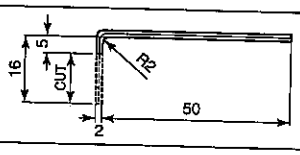
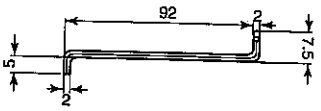
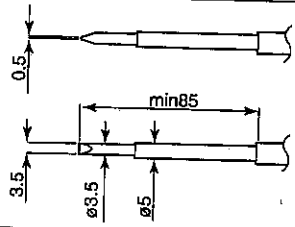
光学机构的会聚度和焦点的调整

色彩	调整	方向	移动	位置	调整工具	锁紧螺丝	紧固工具
红/蓝色	会聚度	X 方向	±0.8mm	偏心凸轮	偏心凸轮调整板手	d	六角板手
		Y 方向	±0.8mm	偏心凸轮	偏心凸轮调整板手	d	六角板手
		θZ 方向	±1°	偏心凸轮	偏心凸轮调整板手	d	六角板手
	焦点	Z 方向	±0.8mm	槽孔 “a” 和 “c”	片头螺丝刀，平头螺丝刀	a, c	菲力浦螺丝刀
		θX 方向	±1°	槽孔 “a” 和 “c”		a, c	
		θY 方向	±1°	槽孔 “b” 和 “c”		b, c	* 六角板手
绿色	焦点	Z 方向	±0.2mm	与红，蓝色相同			
		θX 方向	±1°				
		θY 方向	±1°				

焦点调整的其他方法

锁紧螺丝	位置	相关方向
a	槽孔 “a”	Z 和θX 方向
b	槽孔 “b”	θY 方向
c	槽孔 “c”	Z, θX 和θY 方向

会聚度和焦点的调整用工具

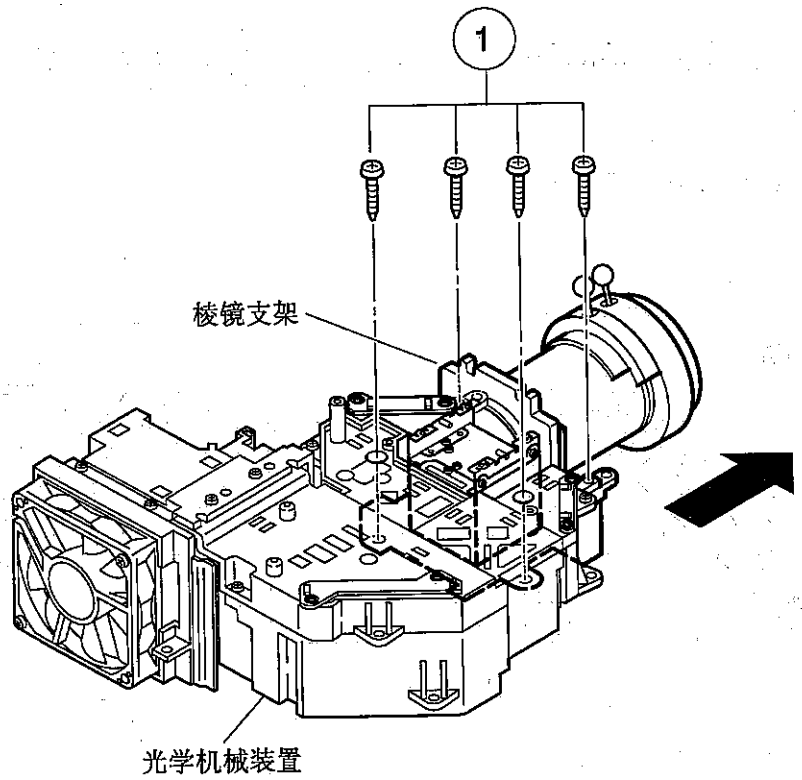
工具名	规格	工具代号	图样
偏心凸轮调整板手	特殊规格	9DASPN-XGNV1U	
偏心凸轮调整板手	特殊规格	9DASPN-XGNV1U	
六角板手	普通规格（重设计）	9EQLNC-XGNV1U	
		9EQLNC-XGNV4U	
平头螺丝刀	普通规格	9EQDRiVER-NV1B	
菲力浦螺磁刀	普通规格	—	用于 M2.6 皿形头机械螺丝
* 六角板手	普通规格	—	建议使用带把手的螺丝刀，六角的一边长度为1.27mm，长度为70mm以上。

液晶显示板的更换

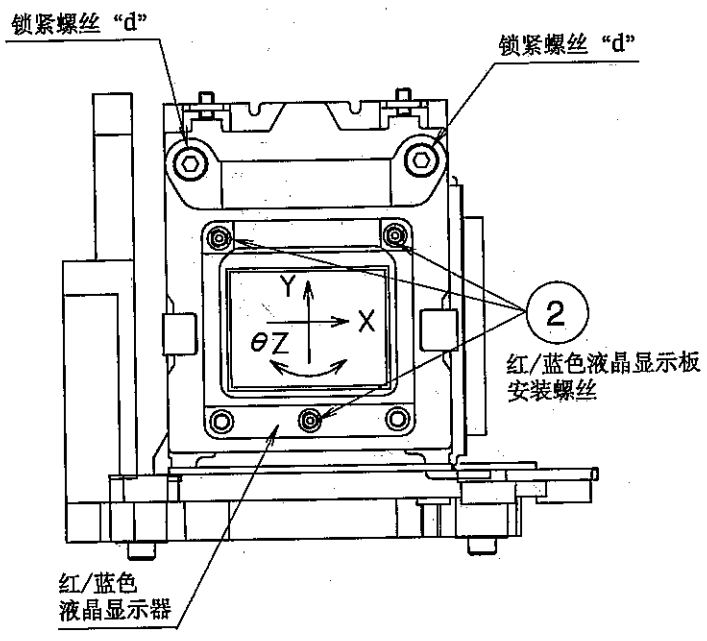
更换之前，必须先拆下顶面板和光学机械装置。

1. 松去棱镜支架上的 4 支锁紧螺丝，以分开棱镜支架与光学机械装置。
2. 松去液晶显示板上的 9 支锁紧螺丝(红色、绿色及蓝色液晶显示板上的各 3 支锁紧螺丝)，以分开液晶显示板与棱镜支架。
3. 按上述相反顺序安装相应的新品液晶显示板。

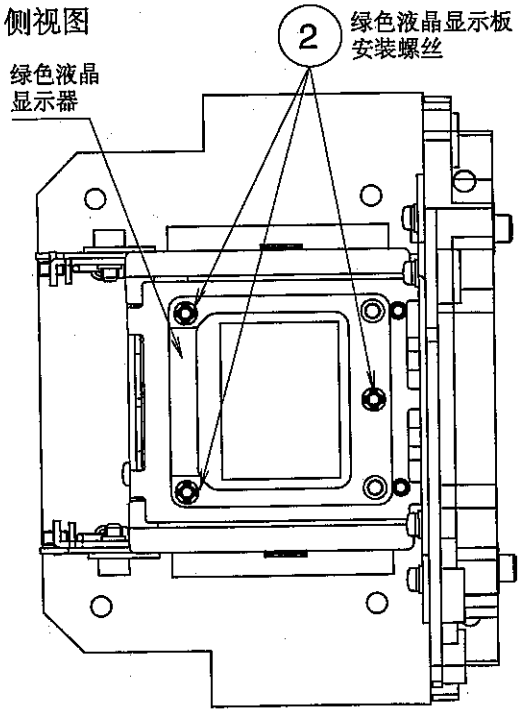
* 更换后重调会聚度和焦点。注意，绿色液晶显示板不需作会聚调整，而且其 Z 方向的调整范围较小。



侧视图 (从内部来看)



侧视图

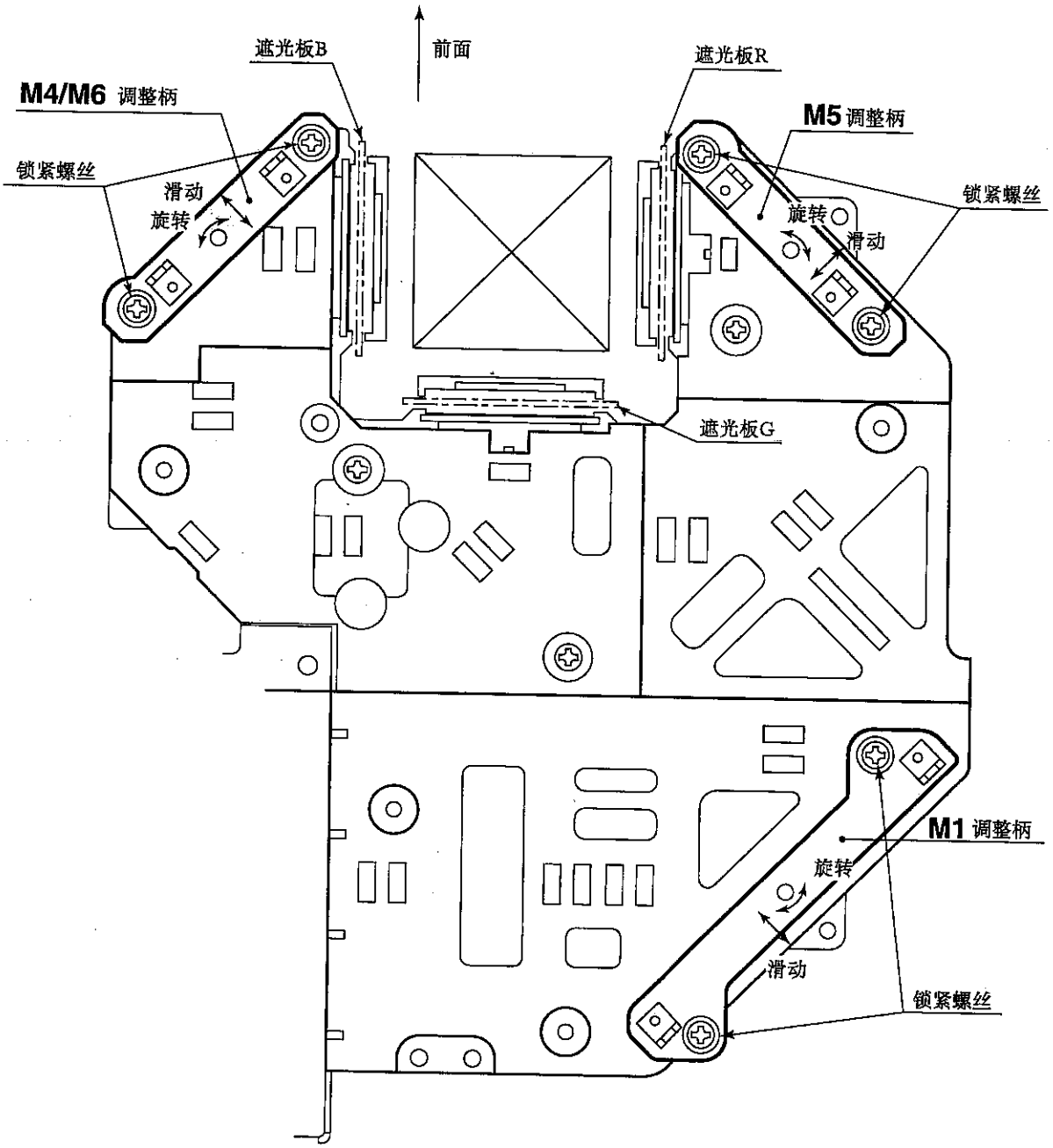


反射镜（M1，M5 和 M4/M6）光轴的调整

红色(R)，绿色(G)和蓝色(B)反射镜发生重迭成像时，应对其光轴进行调整。一般说，更换机内的任何光学元件后均必须对各反射镜光轴进行调整。

更换机内的光学元件或调整聚焦度后，请按下述步骤调整各反射镜光轴。

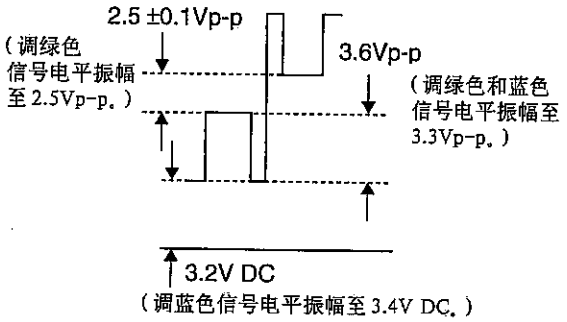
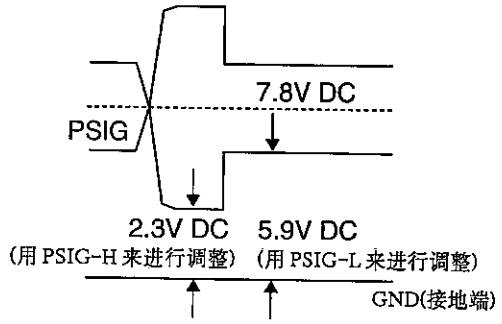
(1) 拆下所有的液晶显示板上的扁平电缆。
(2) 点亮总灯。
(3) 用遮光板遮挡住红色(R)和蓝色(B)反射镜（可用商用磁卡或类似可遮光板的板片），调整绿色(G)反射镜。
(4) 施松 M1 调整柄锁紧螺丝。
(5) 观察屏幕上的绿色(G)图像，施转或滑动 M1 调整柄，直至屏幕上的黯块消失。然后，锁定好调整柄。
(6) 用遮光片遮挡住绿色(G)和蓝色(B)反射镜，调整 M5 调整柄。之后，用相同要领，遮挡住红色(R)和绿色(G)反射镜，调整 M6 反射镜。
（调整要领见上述步骤(4)和(5)。）
(7) 揭去所有的遮光片，屏幕应为白色图像。
确让屏幕上没有黯块。

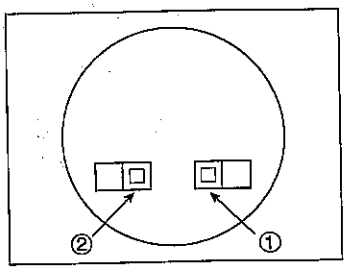
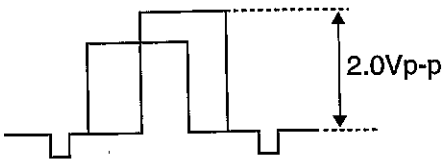


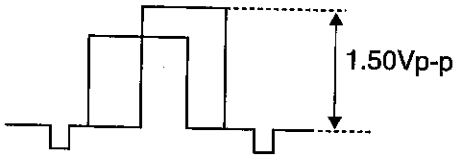
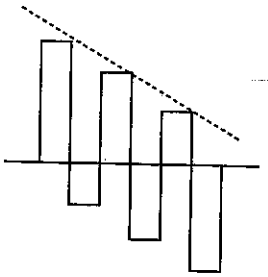
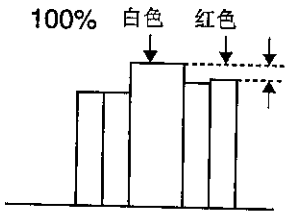
电路调整

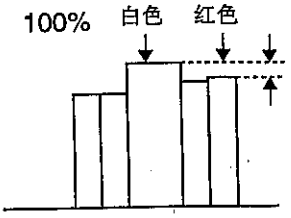
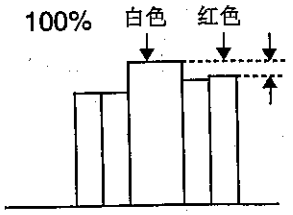
为了输入调整条件中所述的规定信号，必须连接信号发生器，或将 DOSV 或 MAC 微型计算机连接于本投影机。

序号	调整位置	调整条件	调整方法
1	EEPROM 的初始化	1. 打开电源开关（确让是否处于灯亮状态），然后预热投影机 15 分钟。	● 按下列要求进行设定: 触按 S5001 开关，以呼出处理状态，然后执行 SSS 菜单中的 S2。至此完成了本系统的初始化。但是不包括印刷电路板的初始化。此时，切勿执行 S1，否则，印刷电路板就会被初始化。作印刷电路板的调整时，必须按“印刷电路板的调整方法”所述的步骤进行调整。（见第 115 页）。
2	3.3V 电源的调整	1. 打开电源开关。 2. 接数字电压表于 TP1446。	● 调节R1649, 使电压表所示的读数达至3.325V ± 100mV。
3	2.5V 电源的调整	1. 打开电源开关。 2. 接数字电压表于 TP1447。	● 调节R1652, 使电压表所示的读数达至2.625V ± 50mV。
4	红色激励	1. 按下列要求进行选择: 主项目: A/D 副项目: GAIN 确让增益值是否定 163。 2. 输入 100% 红色信号，然后按下列要求进行选择: 主项目: A/D 副项目: R-D	● 触按控制开关或遥控键钮，调节数据，使信号达至无位噪声状态。
5	蓝色激励	1. 输入 100% 蓝色信号，然后按下列要求进行选择: 主项目: A/D 副项目: B-D	● 触按控制开关或遥控键钮，调节数据，使信号达至无位噪声状态。
6	绿色激励	1. 输入 100% 绿色信号，然后按下列要求进行选择: 主项目: A/D 副项目: G-D	● 触按控制开关或遥控键钮，调节数据，使信号达至无位噪声状态。

序号	调整位置	调整条件	调整方法
7	RGB （红绿蓝三色） 1 系统的黑色电平信号振幅 （奇数）	1. 按下列要求进行选择： 主项目: OUTPUT1 副项目: R1-BLK R1-GAIN 绿色之场合，选择副项目中的 G1-BLK 和 G1-GAIN。 黑色之场合，选择副项目中的 B1-BLK 和 B1-GAIN。 2. 红色之场合，接示波器于 TP1101。 绿色之场合，接示波器于 TP1201。 蓝色之场合，接示波器于 TP1301	● 选择副项目中的 R1-GAIN 触按控制开关或遥控键钮，使黑色峰值电平调至 3.6 ± 0.1Vp-p（直流电）。 ● 接着选择副项目中的 R1-BLK，调节黑色峰值电平至 3.2 ± 0.1V DC。  ● 分别调零红绿蓝三色的信号电平振幅和最大黑色信号电平至 3.3 ± 0.1Vp-p 与 3.4 ± 0.1V DC 的规定要求。
8	视频信号	1. 红色之场合，接示波器于 TP1102。 绿色之场合，接示波器于 TP1202。 蓝色之场合，接示波器于 TP1302。 2. 按下列要求进行选择: 主项目: OUTPUT2 副项目: PSIG-H PSIG-L	● 调整 PSIG 波形，以获得下图所示的波形。  ● 检查绿色和蓝色波形是否与红色波形一致。
9	取样和同步脉冲相位 RCK- 相位 GCK- 相位 BCK- 相位	1. 输入 XGA 制式 75Hz 黑色信号。 2. 按下列要求进行选择: 主项目: OUTPUT3 副项目: SH-PHASE （设标准电平于 8） 红色，绿色以及蓝色的相位均设定于 8。	● 触按控制开关或遥控键钮，以检查 “OUTPUT3” 的文字有无模糊不清或重像现象。若有异常时，应在序号 7 至 9 的范围内进行其设定的微调。

序号	调整位置	调整条件	调整方法
10	RGB （红绿蓝三色） 计数器电压的调整	1. 输入黑色与红色（25%）条状信号（XGA）。 2. 按下列要求进行选择: 主项目: OUTPUT3 副项目: RC (R)	● 触按控制开关或遥控键钮，调节数据，使闪变赦应噪声达至最小程度。 ● 按与上记相同要领进行 BC (B) 和 GC (G) 的调整。 ● 检查屏幕上显示的图像中心和左右边是否均匀。若有不均匀状态时，则应重调图像，使左右边达至相同程度。
11	RGB （红绿蓝三色） 等级再生的调整	1. 输入 100% 绿色 SMPTE 图案信号（XGA）。 主项目: OUTPUT1 副项目: G1-GAIN	● 调节 G-GAIN 数据，直至稍微看得到 ① 部分（等级为 95% 和 100% 白色）的图像（如下图所示）。然后，再检查 ② 部分（等级为 0% 和 5% 黑色）的图像是否看得很清楚。 
12	RGB （红绿蓝三色） 白色平衡	1. 输入 32 等级灰度测试信号 (XGA)。 主项目: OUTPUT1 副项目: R1-BLK (R) B1-BLK (B)	● 选择副项目中的R1-BLK和B1-BLK，调零黑色平衡。
13	水平中心	1. 输入 NTSC 制式单像管图案信号。 2. 主项目: VIDEO2 副项目: N358-DLY (6) N443-DLY (2) PAL-DLY (2) SECAM-DLY (2) 检查各设定值是否如上所示。 3. 主项目: VIDEO1 副项目: NTSC-H	● 触按控制开关或遥控键钮，调节数据，以获得相同的过扫描。
14	视频图像的调整	1. 输入条状彩条信号。 主项目: VIDEO1 副项目: PICTURE 2. 接示波器于 P801 脚(2)与 GND（接地端）之间。	● 触按控制开关或遥控键钮，调节黑色至白色（100%）电平间的差达至 2.0 ± 0.02Vp-p。 

序号	调整位置	调整条件	调整方法
15	视频AGC (自动增益控制)	1. 输入条状彩条信号。 主项目: VIDEO1 副项目: AGC 2. 接示波器于 P801 脚(2)与 GND（接地端）之间。	● 触按控制开关或遥控键钮，调节黑色至白色（100%）电平间的差达至 1.50 ± 0.02Vp-p。 
16	视频亮度的调整	1. 输入基频带信号（条状彩条信号）。（ON-AIR 信号为噪声极多，所以不能接收该信号） 主项目: VIDEO1 副项目: BRIGHT 2. 触按控制开关或遥控静噪键钮，设 γ 补正值于处理状态。	● 触按控制开关或遥控键钮，调节设定值，使黑色信号达至无位噪声状态，然后再设定于 -2 数值。
17	色调	1. 输入条状彩条信号。 主项目: VIDEO1 副项目: TINT 2. 接示波器于 P801 脚(4)。	● 触按控制开关或遥控键钮，调节数据，使蓝色亮度（B-Y）信号的波形达至下图所示的规定要求。 
18	NTSC 制式彩色饱和电平	1. 输入条状彩条信号。 主项目: VIDEO1 副项目: N-COLOR 2. 接示波器于 P801 脚(1)。	● 触按控制开关或遥控键钮，调节数据，使 100% 白色部分与红色部分间的差达至 0.10 ± 0.02Vp-p。（与 100% 白色相同） 

序号	调整位置	调整条件	调整方法
19	PAL 制式彩色饱和电平	1. 输入条 PAL 制式彩条信号。 主项目: VIDEO1 副项目: P-COLOR 2. 接示波器于 P801 脚(1)。	● 触按控制开关或遥控键钮，调节数据，使 100% 白色部分与红色部分间的差达至 0.20 ± 0.02Vp-p。 
20	SECAM 制式彩色饱和电平	1. 输入SECAM制式彩条信号。 主项目: VIDEO1 副项目: S-COLOR 2. 接示波器于 P801 脚(1)。	● 触按控制开关或遥控键钮，调节数据，使 100% 白色部分与红色部分间的差达至 0.25 ± 0.02Vp-p。 
21	视频白色平衡	1. 输入 NTSC 制式单像管图案信号。 主项目: VIDEO2 副项目: R1-GAIN B1-GAIN	● 触按控制开关和遥控键钮，进行调节，使全体屏幕上均匀地不显示出彩色。
22	彩色不规则性补偿位置	1. 输入只有灰色的 RGB 彩色信号。 2. 使屏幕上的彩色不规则位置弄清楚。 3. 主项目: NOKO 副项目: NOKO-RL 4. 主项目: NOKO 副项目: NOKO-LH	● 在彩色上发生不规则性时调节NOKO-RL数据。在右边上发生不规则性时，该数据设定于R位置，在左边上发生不规则性时，该数据设定于L位置。 ● 未发现彩色边纹现象时，必须关闭NOKO-LH数据上的锯齿波形校正功能
23	彩色不规则性补偿增益 (发生彩色不规则性时)	1. 输入只有灰色的 RGB 彩色信号。	● 调节 R4215，使左右边的彩色不规则性达至最小程度。

<table>
<tr><th>序号</th><th>调整位置</th><th>调整条件</th><th>调整方法</th></tr>
<tr><td>24</td><td>彩色制式的
性能检查</td><td>1. 接收彩条信号。</td><td>● 设定于处理状态，选择 L1，以检查彩色和色调。</td></tr>
<tr><td>25</td><td>视频制式的
性能检查</td><td>1. 接收单像管图案信号。</td><td>● 设定于处理状态，选择 L2，以检查图像，亮度及鲜明度。</td></tr>
<tr><td>26</td><td>音频制式的
性能检查</td><td></td><td>● 设定于处理状态，选择 L3，以检查低音，高音及其平衡状态。</td></tr>
<tr><td>27</td><td>RGB
（红绿蓝三色）
的性能检查</td><td>1. 接收 RGB（红绿蓝三色）信号。</td><td>● 设定于处理状态，选择 L4，以检查图像，亮度，红色，蓝色，时钟，相位，水平位置及垂直位置。</td></tr>
<tr><td>28</td><td>关机定时器的
性能检查</td><td></td><td>● 设定于处理状态，选择 OFF，然后检查关机定时器是否从 5 分钟开始启动并以 1 秒钟为单位递减至 0 时停止。</td></tr>
<tr><td>29</td><td>热敏电阻的
性能检查</td><td>1. 用吹风机加热热敏电阻。</td><td>● 检查显示屏上有无显示出 “TEMP” 的字样。</td></tr>
<tr><td>30</td><td>自动同步</td><td>1. 接收 PHASE 检查图案信号。</td><td>● 设定 VGA/S-VGA/XGA/SXGA 状态，然后检查时钟，相位，水平和垂直位置是否自动地被调节。</td></tr>
<tr><td>31</td><td>IrDA 的性能检查</td><td></td><td>● 检查能否接收 IrDA 信号。</td></tr>
<tr><td>32</td><td>梯形失真补偿的
性能检查</td><td></td><td>● 检查梯形失真补偿功能是否正常。</td></tr>
<tr><td>33</td><td>出厂前设定</td><td></td><td>● 按下列要求进行设定。
<table><tr><th>程序调整</th><th>遥控器的设定</th></tr><tr><td>S4</td><td>“出厂前设定于 4”</td></tr></table></td></tr>
</table>

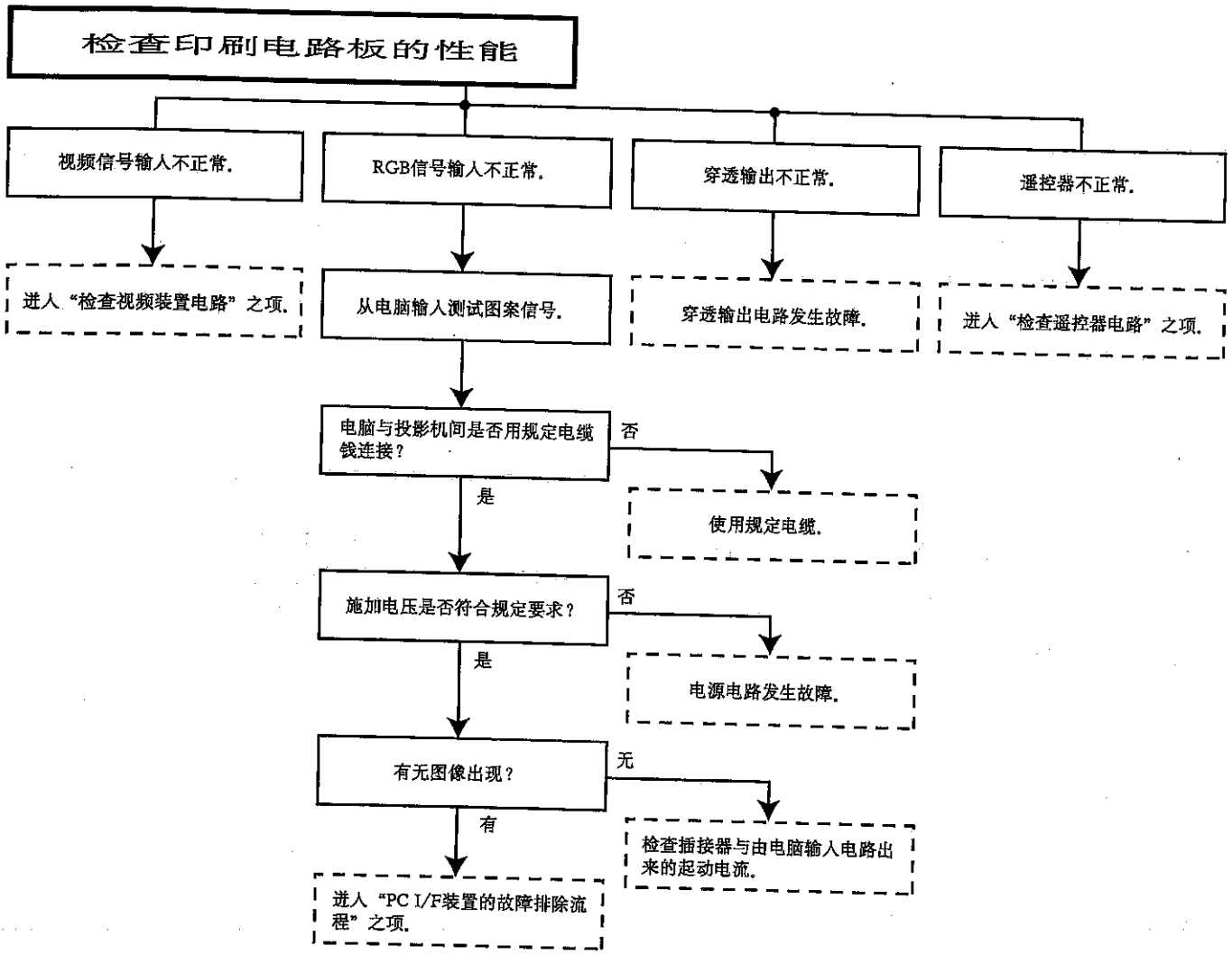
PC 接口(CPCI-0031CE04. PC I/F 装置)的调整

1. 示波器的设定
   设测试范围为 DC1V/ 段和 5 μ / 段。

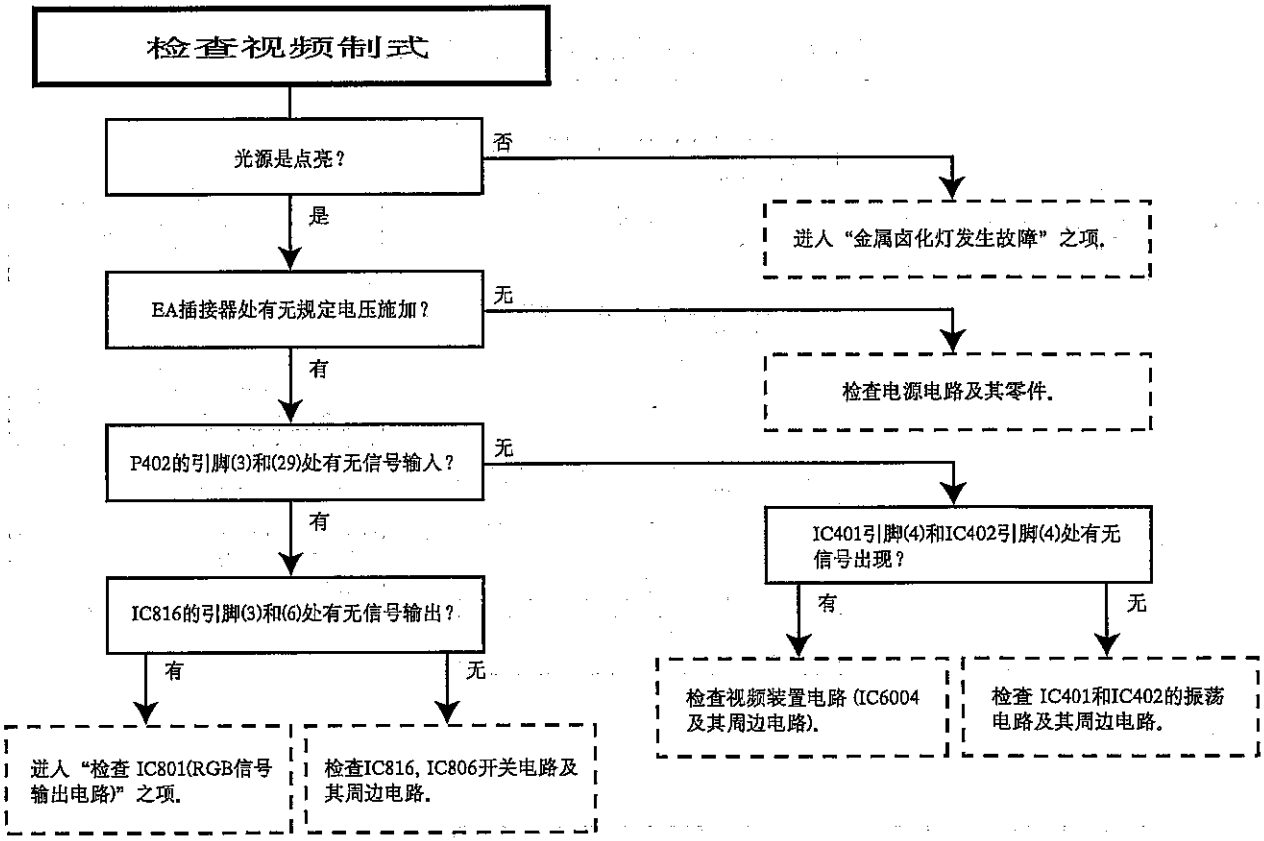
2. P C接口的连接
   1) 接P C接口于投影机。检查 CON2(P8404), CON3(P8502)和 CON4(P8405)插接器是否分别接至所规定的位置。
   2) 接电缆于电脑 ANALOG 输出端与 DSUB（投影机上的输入端 1）插接器之间。
   3) 设投影机的输入选择器于 RGB1 位置。
   4) 设信号发生器于 XGA 模式(1024 × 768, 60Hz, 32 音调控制)、并保持输出信号幅值为 700mVp-p。
   5) 打开电源。

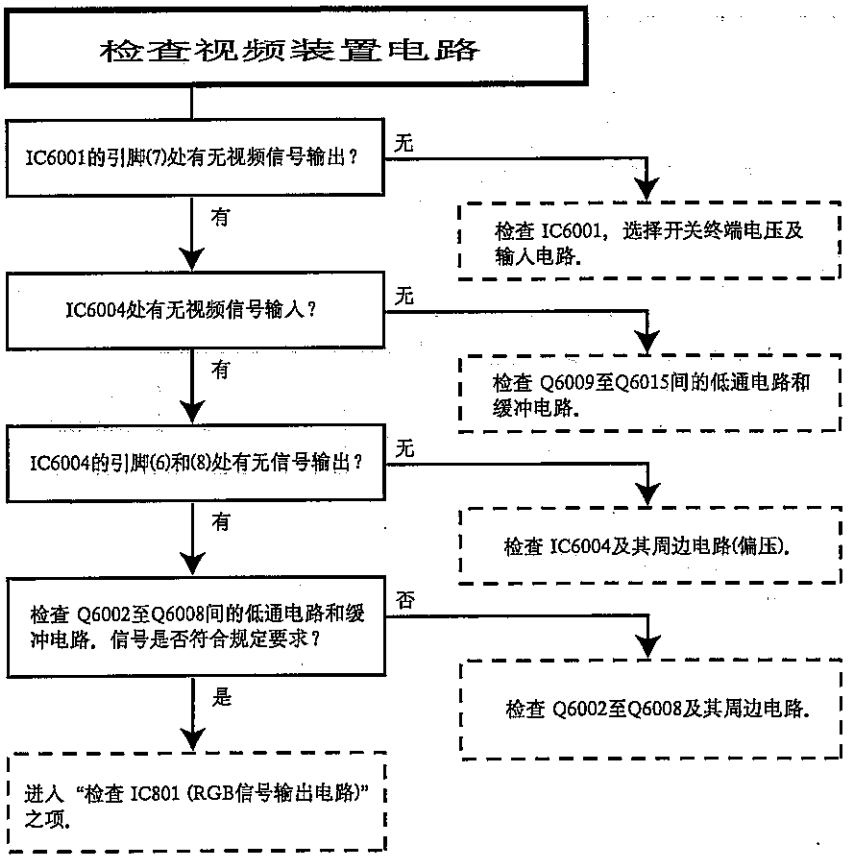
3. 电平的调整与音调的检查
   1) 触按 S5001 键、以呼出处理模式。
   2) 先选择 OUTPUT3 菜单上的 SH-PHASE 设定、然后再输入 8。（调整至屏幕上显示的字样轮廓清楚不再模糊为止）
   3) 调节 OUTPUT1 菜单上的 BRIGHT 设定，使 TP8002 处的黑色信号达至 1.9V。
   4) 调节 A/D 菜单上的 ROS 设定，使 TP8008（或 IC8011 的脚(2)）处的电压值达至 1.7V。
   5) 调节 A/D 菜单上的 GOS 设定，使 TP8009（或 IC8010 的脚(2)）处的电压值达至 1.7V。
   6) 调节 A/D 菜单上的 BOS 设定，使 TP8010（或 IC8009 的脚(2)）处的电压值达至 1.7V。
   7) 检查 A/D 菜单上的 GAIN 设定值是否 163。
   8) 调节 A/D 菜单上的 B-D 设定，使 TP8001 处的白色信号电平达至 3.6V 与其同时、检查音调等级（音调编号）是否符合规定要求。
   9) 调节 A/D 菜单上的 R-D 设定，使 TP8003 处的白色信号电平达至 3.6V 与其同时、检查音调等级（音调编号）是否符合规定要求。
   10) 调节 A/D 菜单上的 G-D 设定，使 TP8002 处的白色信号电平达至 3.6V 与其同时、检查音调等级（音调编号）是否符合规定要求。
   11) 最后，触按 S5001 键，以解除处理模式。

故障排除流程

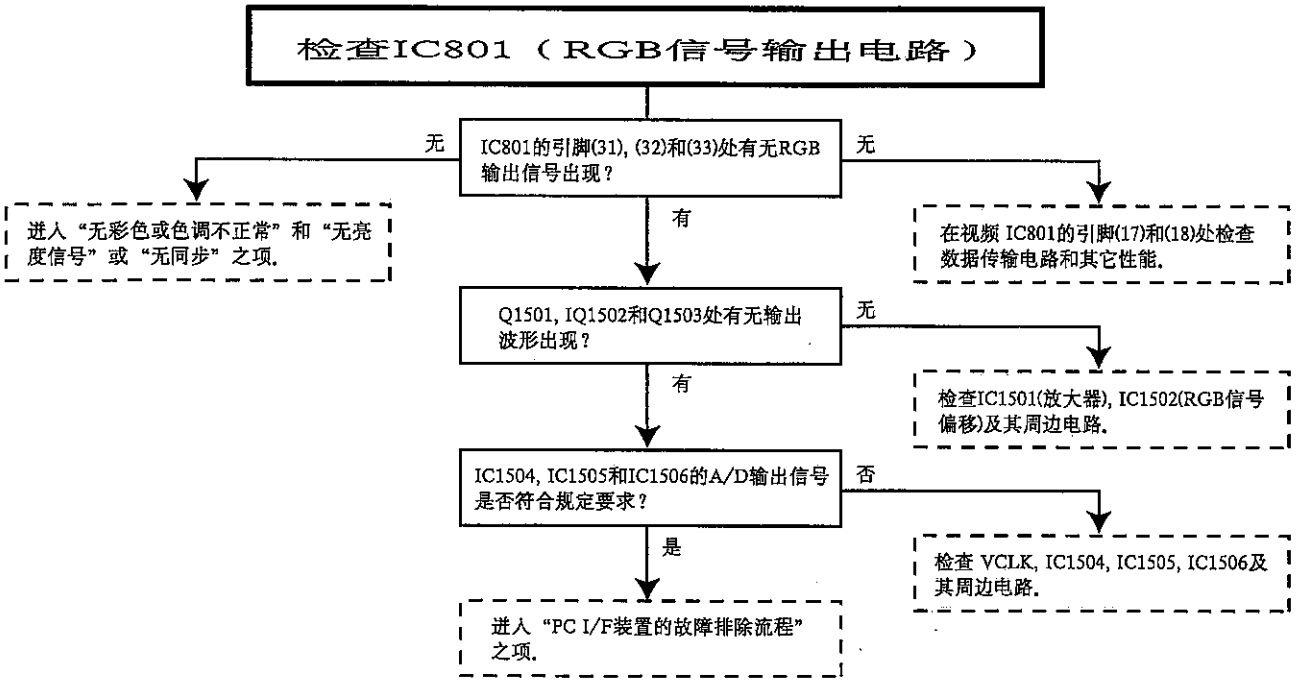

检查印刷电路板的性能
视频信号输入不正常.
RGB信号输入不正常.
穿透输出不正常.
遥控器不正常.
进入“检查视频装置电路”之项.
从电脑输入测试图案信号.
穿透输出电路发生故障.
进入“检查遥控器电路”之项.
电脑与投影机间是否用规定电缆钱连接?
否
是
使用规定电缆.
施加电压是否符合规定要求?
否
是
电源电路发生故障.
有无图像出现?
无
有
检查插接器与由电脑输入电路出来的起动电流.
进入“PC I/F装置的故障排除流程”之项.

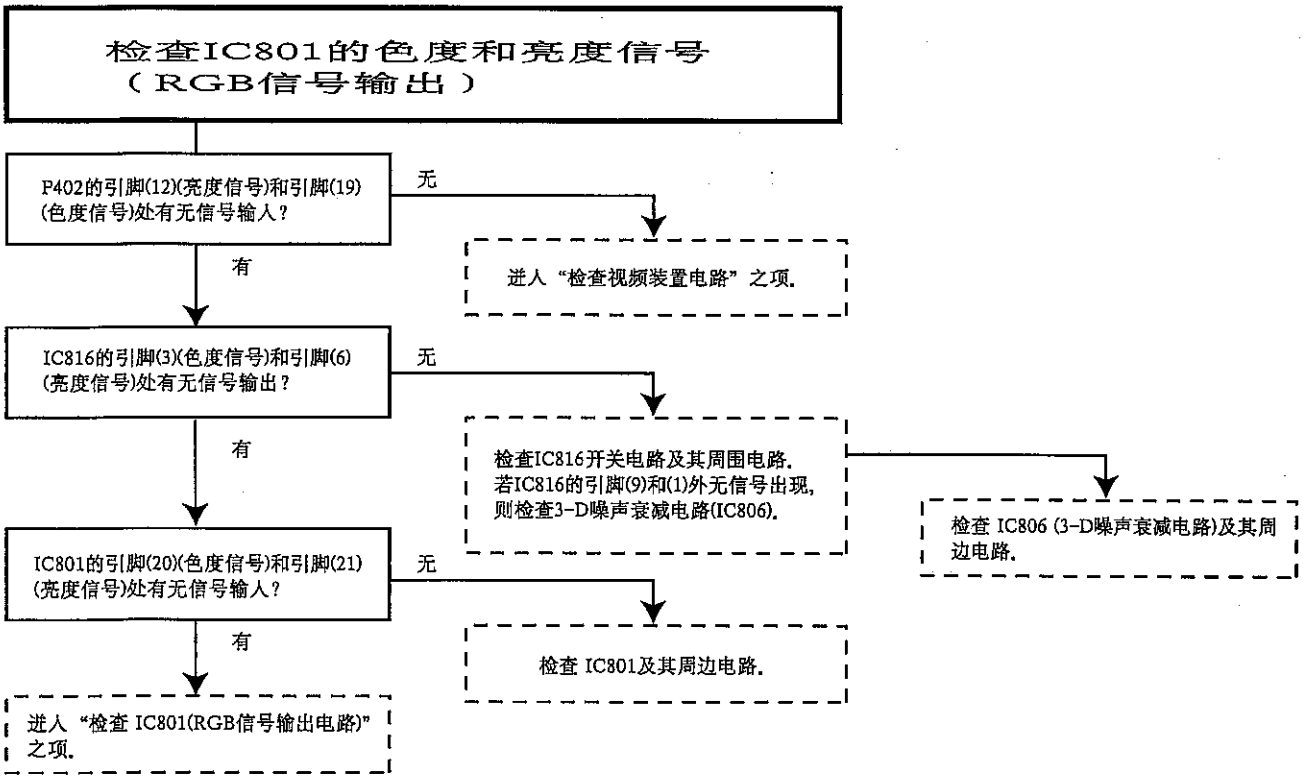
故障排除流程（接上页）


检查视频制式
光源是点亮？
否
是
进入“金属卤化灯发生故障”之项.
EA插接器处有无规定电压施加？
无
有
检查电源电路及其零件.
P402的引脚(3)和(29)处有无信号输入？
无
有
IC401引脚(4)和IC402引脚(4)处有无信号出现？
有
无
IC816的引脚(3)和(6)处有无信号输出？
有
无
检查视频装置电路 (IC6004及其周边电路).
检查 IC401和IC402的振荡电路及其周边电路.
进入“检查 IC801(RGB信号输出电路)”之项.
检查IC816, IC806开关电路及其周边电路.

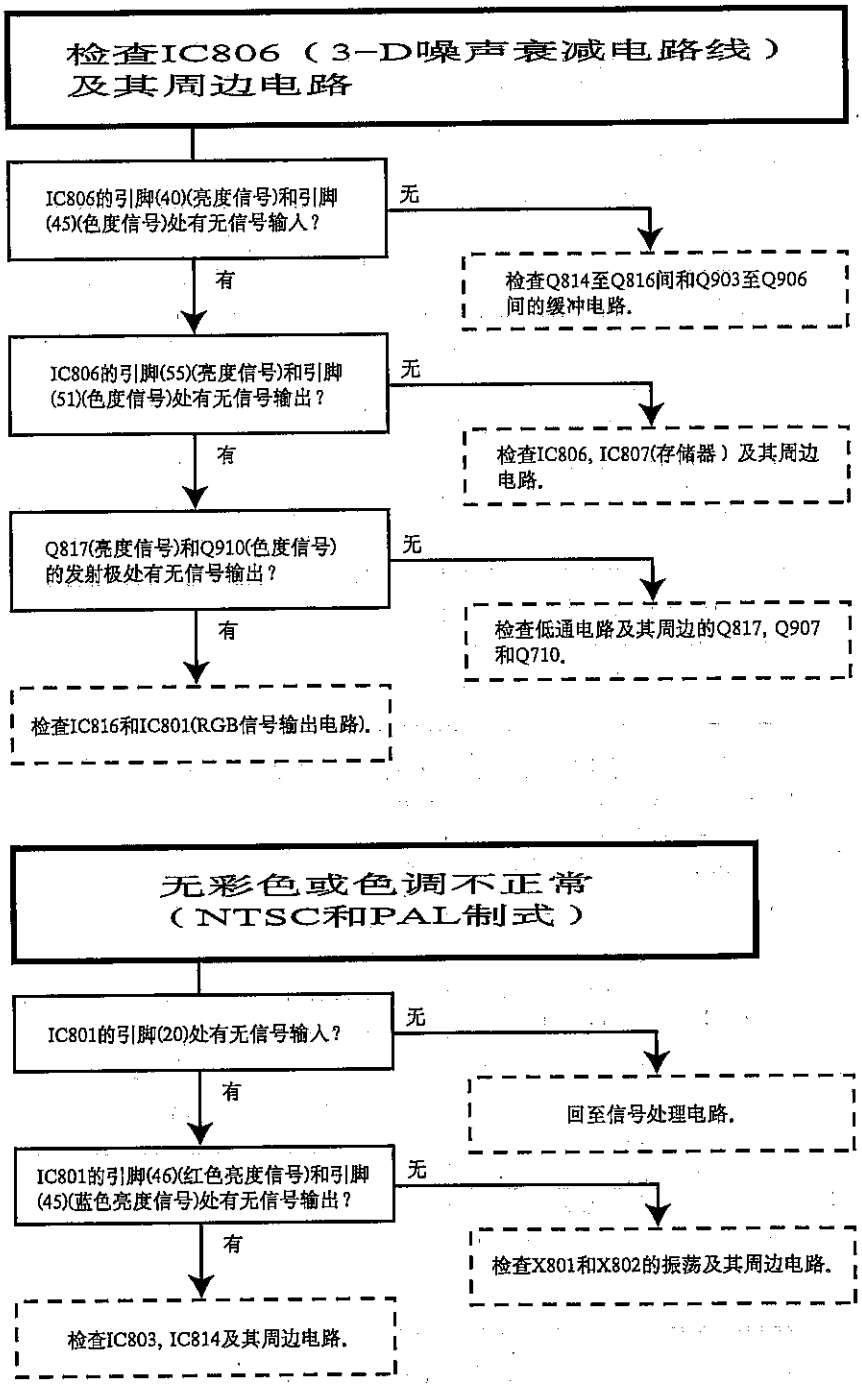

检查视频装置电路
IC6001的引脚(7)处有无视频信号输出？
无
有
检查 IC6001，选择开关终端电压及输入电路.
IC6004处有无视频信号输入？
无
有
检查 Q6009至Q6015间的低通电路和缓冲电路.
IC6004的引脚(6)和(8)处有无信号输出？
无
有
检查 IC6004及其周边电路(偏压).
检查 Q6002至Q6008间的低通电路和缓冲电路. 信号是否符合规定要求？
否
是
检查 Q6002至Q6008及其周边电路.
进入“检查 IC801 (RGB信号输出电路)”之项.

故障排除流程（接上页）

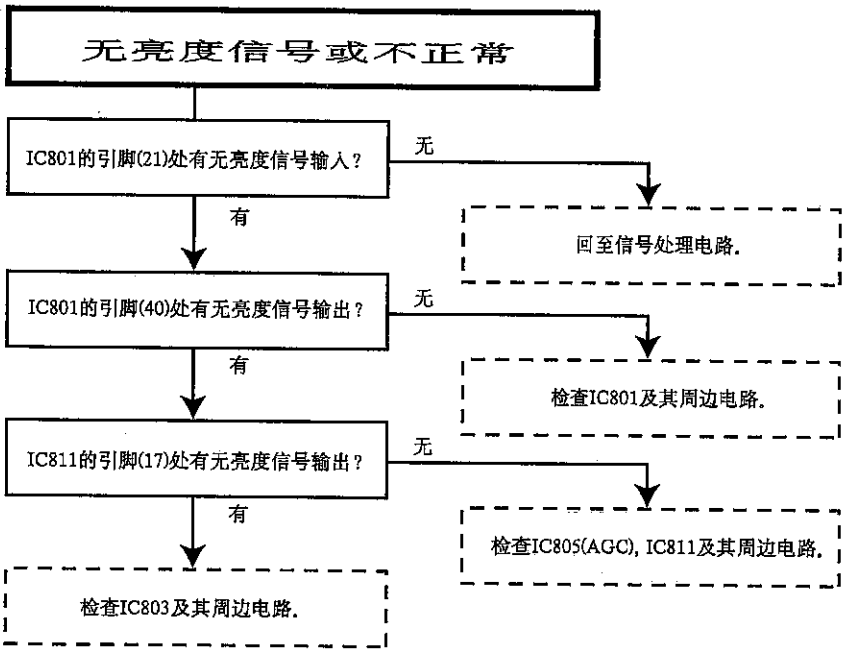

检查IC801（RGB信号输出电路）
IC801的引脚(31), (32)和(33)处有无RGB输出信号出现？
无
进入“无彩色或色调不正常”和“无亮度信号”或“无同步”之项.
有
无
在视频 IC801的引脚(17)和(18)处检查数据传输电路和其它性能.
Q1501, IQ1502和Q1503处有无输出波形出现？
无
检查IC1501(放大器), IC1502(RGB信号偏移)及其周边电路.
有
IC1504, IC1505和IC1506的A/D输出信号是否符合规定要求？
否
检查 VCLK, IC1504, IC1505, IC1506及其周边电路.
是
进入“PC I/F装置的故障排除流程”之项.

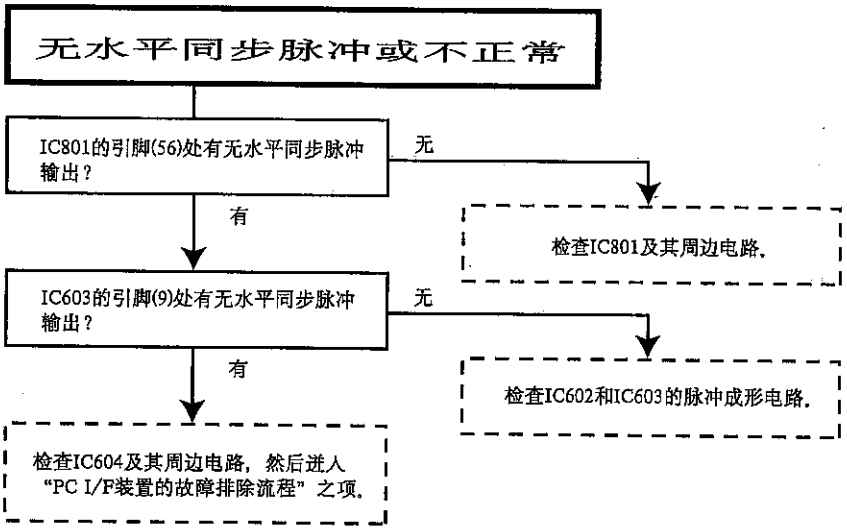

检查IC801的色度和亮度信号（RGB信号输出）
P402的引脚(12)(亮度信号)和引脚(19)(色度信号)处有无信号输入？
无
进入“检查视频装置电路”之项.
有
IC816的引脚(3)(色度信号)和引脚(6)(亮度信号)处有无信号输出？
无
检查IC816开关电路及其周围电路.
若IC816的引脚(9)和(1)外无信号出现,
则检查3-D噪声衰减电路(IC806).
检查 IC806 (3-D噪声衰减电路)及其周边电路.
有
IC801的引脚(20)(色度信号)和引脚(21)(亮度信号)处有无信号输入？
无
检查 IC801及其周边电路.
有
进入“检查 IC801(RGB信号输出电路)”之项.

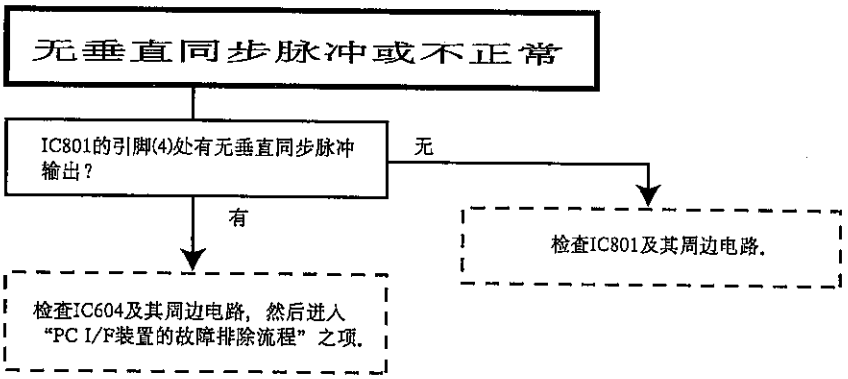
故障排除流程（接上页）


检查IC806（3-D噪声衰减电路线）及其周边电路
IC806的引脚(40)(亮度信号)和引脚(45)(色度信号)处有无信号输入？
无
检查Q814至Q816间和Q903至Q906间的缓冲电路.
有
IC806的引脚(55)(亮度信号)和引脚(51)(色度信号)处有无信号输出？
无
检查IC806, IC807(存储器）及其周边电路.
有
Q817(亮度信号)和Q910(色度信号)的发射极处有无信号输出？
无
检查低通电路及其周边的Q817, Q907和Q710.
有
检查IC816和IC801(RGB信号输出电路).
无彩色或色调不正常（NTSC和PAL制式）
IC801的引脚(20)处有无信号输入？
无
回至信号处理电路.
有
IC801的引脚(46)(红色亮度信号)和引脚(45)(蓝色亮度信号)处有无信号输出？
无
检查X801和X802的振荡及其周边电路.
有
检查IC803, IC814及其周边电路.

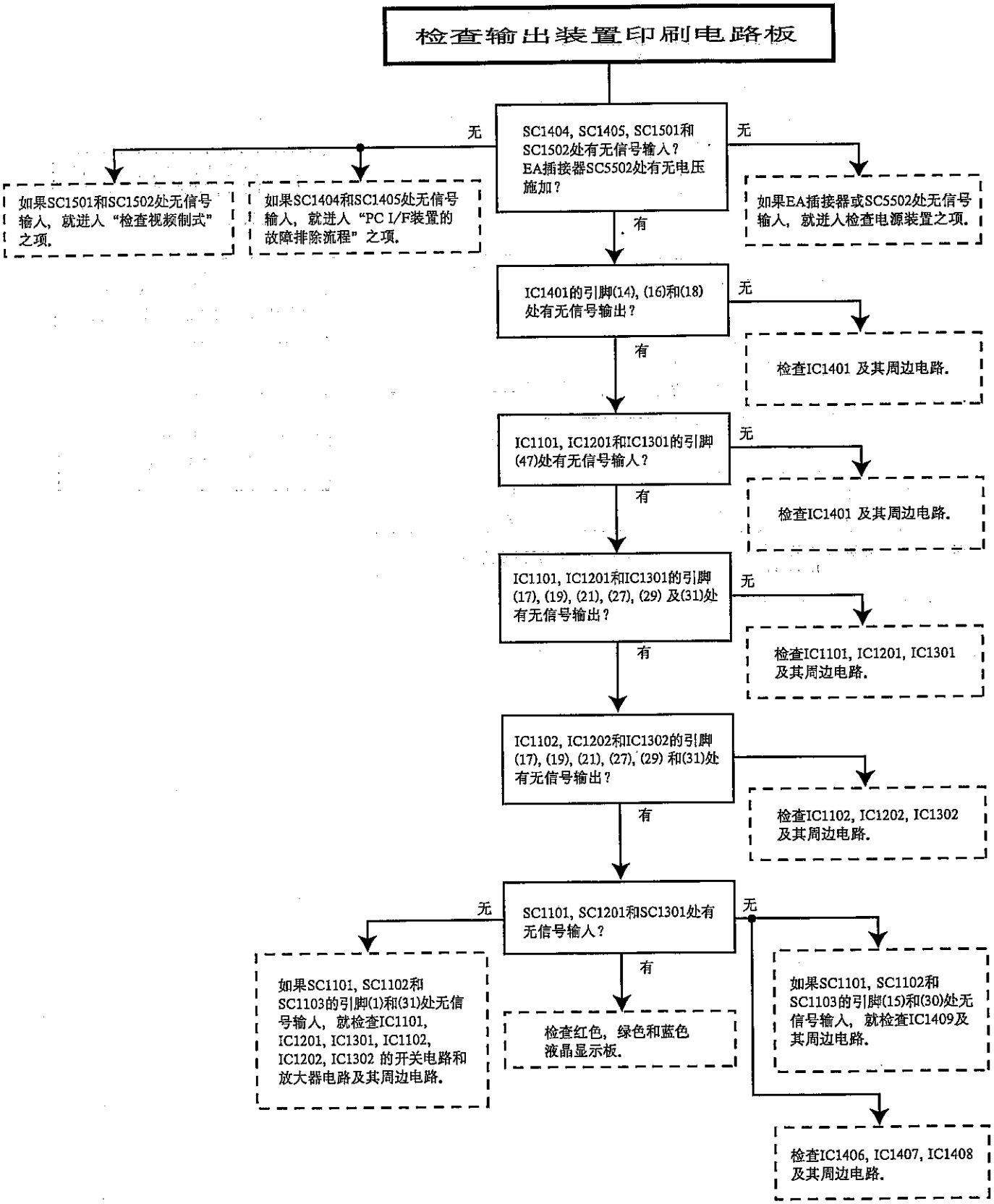
故障排除流程（接上页）


无亮度信号或不正常
IC801的引脚(21)处有无亮度信号输入？
无
有
回至信号处理电路.
IC801的引脚(40)处有无亮度信号输出？
无
有
检查IC801及其周边电路.
IC811的引脚(17)处有无亮度信号输出？
无
有
检查IC805(AGC), IC811及其周边电路.
检查IC803及其周边电路.

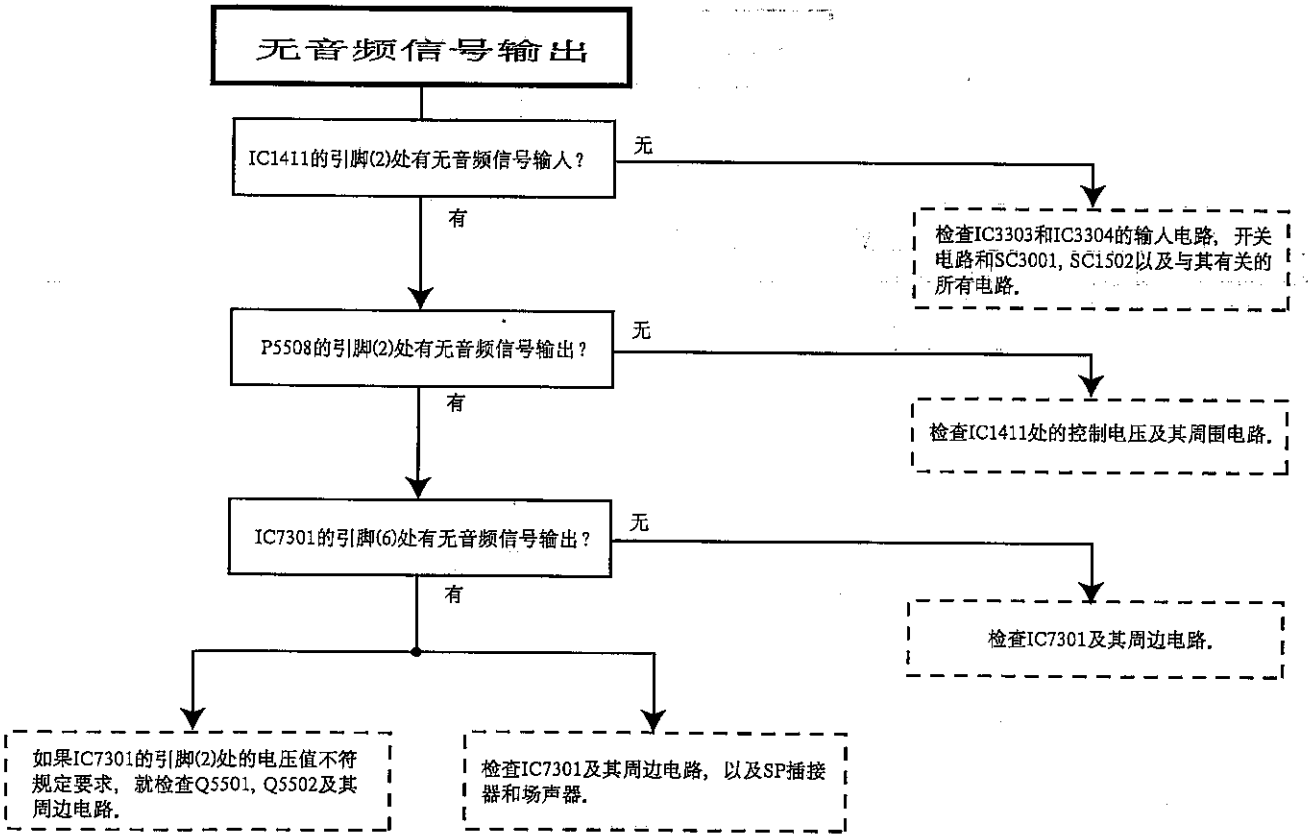

无水平同步脉冲或不正常
IC801的引脚(56)处有无水平同步脉冲输出？
无
有
检查IC801及其周边电路.
IC603的引脚(9)处有无水平同步脉冲输出？
无
有
检查IC602和IC603的脉冲成形电路.
检查IC604及其周边电路，然后进入"PC I/F装置的故障排除流程"之项.


无垂直同步脉冲或不正常
IC801的引脚(4)处有无垂直同步脉冲输出？
无
有
检查IC801及其周边电路.
检查IC604及其周边电路，然后进入"PC I/F装置的故障排除流程"之项.

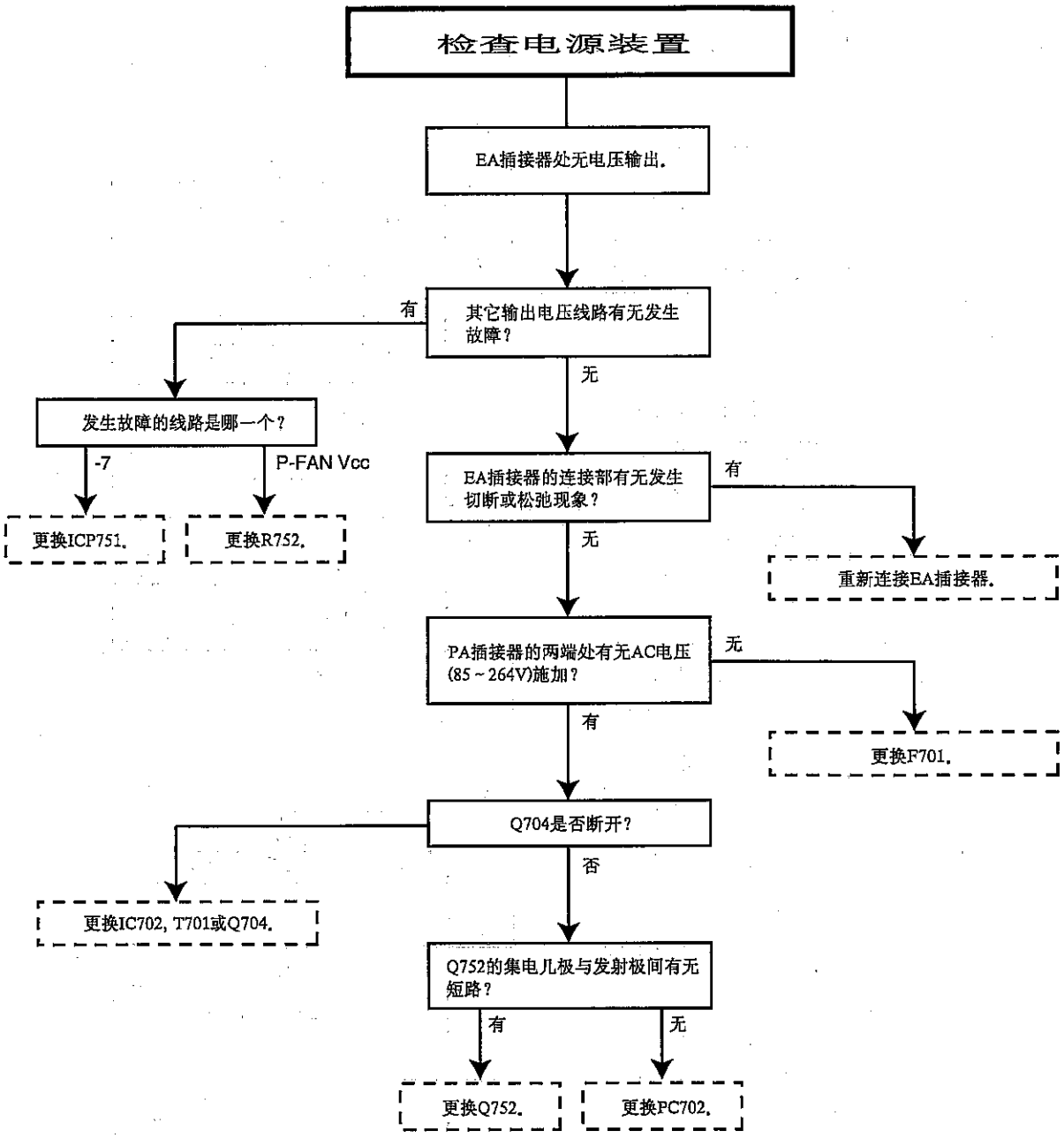
故障排除流程（接上页）


检查输出装置印刷电路板
SC1404, SC1405, SC1501和SC1502处有无信号输入？EA插接器SC5502处有无电压施加？
无
如果SC1501和SC1502处无信号输入，就进入“检查视频制式”之项.
如果SC1404和SC1405处无信号输入，就进入“PC I/F装置的故障排除流程”之项.
无
如果EA插接器或SC5502处无信号输入，就进入检查电源装置之项.
有
IC1401的引脚(14), (16)和(18)处有无信号输出？
无
检查IC1401 及其周边电路.
有
IC1101, IC1201和IC1301的引脚(47)处有无信号输入？
无
检查IC1401 及其周边电路.
有
IC1101, IC1201和IC1301的引脚(17), (19), (21), (27), (29) 及(31)处有无信号输出？
无
检查IC1101, IC1201, IC1301及其周边电路.
有
IC1102, IC1202和IC1302的引脚(17), (19), (21), (27), (29) 和(31)处有无信号输出？
无
检查IC1102, IC1202, IC1302及其周边电路.
有
SC1101, SC1201和SC1301处有无信号输入？
无
如果SC1101, SC1102和SC1103的引脚(1)和(31)处无信号输入，就检查IC1101, IC1201, IC1301, IC1102, IC1202, IC1302 的开关电路和放大器电路及其周边电路.
有
检查红色，绿色和蓝色液晶显示板.
无
如果SC1101, SC1102和SC1103的引脚(15)和(30)处无信号输入，就检查IC1409及其周边电路.
检查IC1406, IC1407, IC1408及其周边电路.

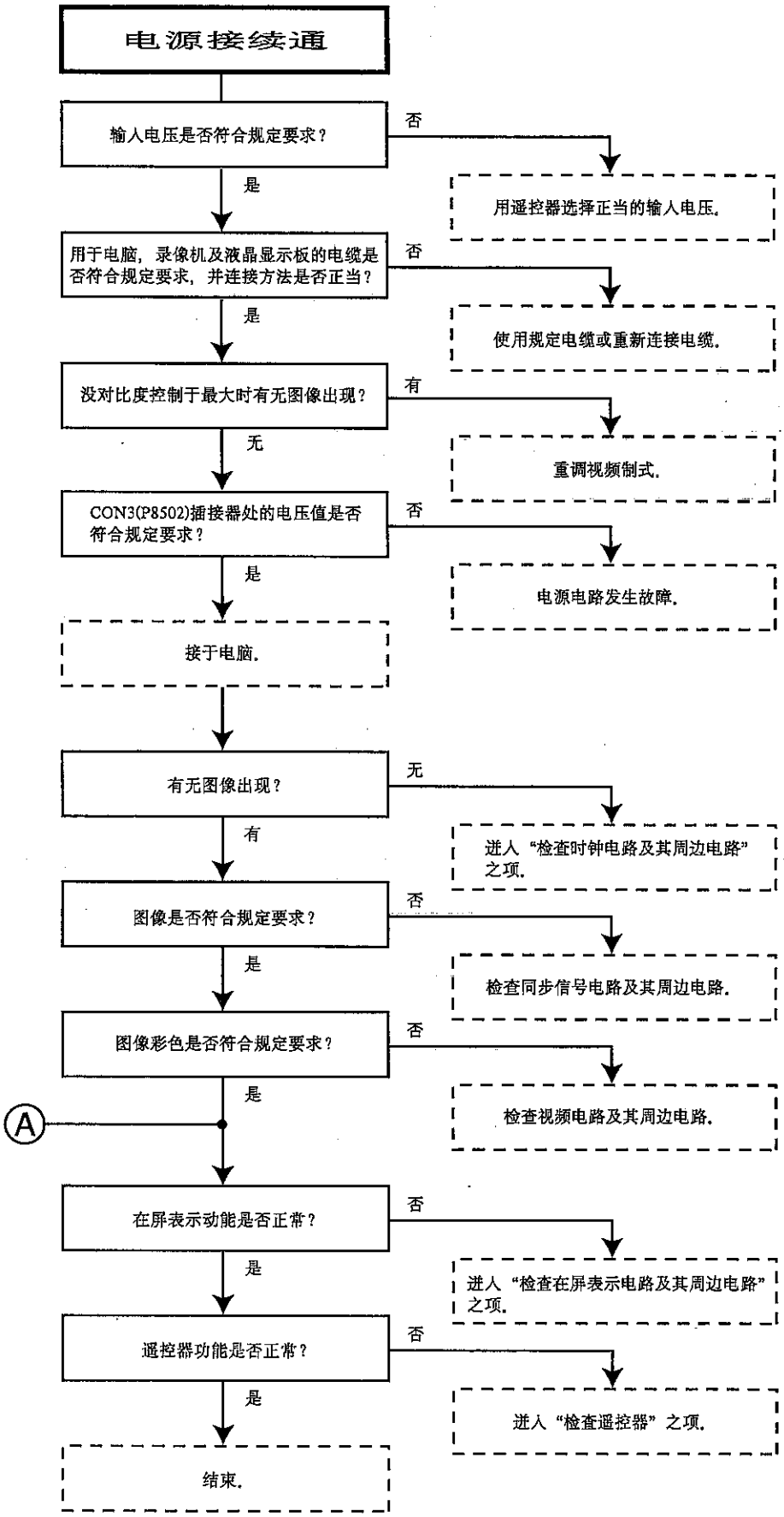
故障排除流程（接上页）


无音频信号输出
IC1411的引脚(2)处有无音频信号输入？
无
有
检查IC3303和IC3304的输入电路，开关电路和SC3001，SC1502以及与其有关的所有电路。
P5508的引脚(2)处有无音频信号输出？
无
有
检查IC1411处的控制电压及其周围电路。
IC7301的引脚(6)处有无音频信号输出？
无
有
检查IC7301及其周边电路。
如果IC7301的引脚(2)处的电压值不符规定要求，就检查Q5501，Q5502及其周边电路。
检查IC7301及其周边电路，以及SP插接器和扬声器。

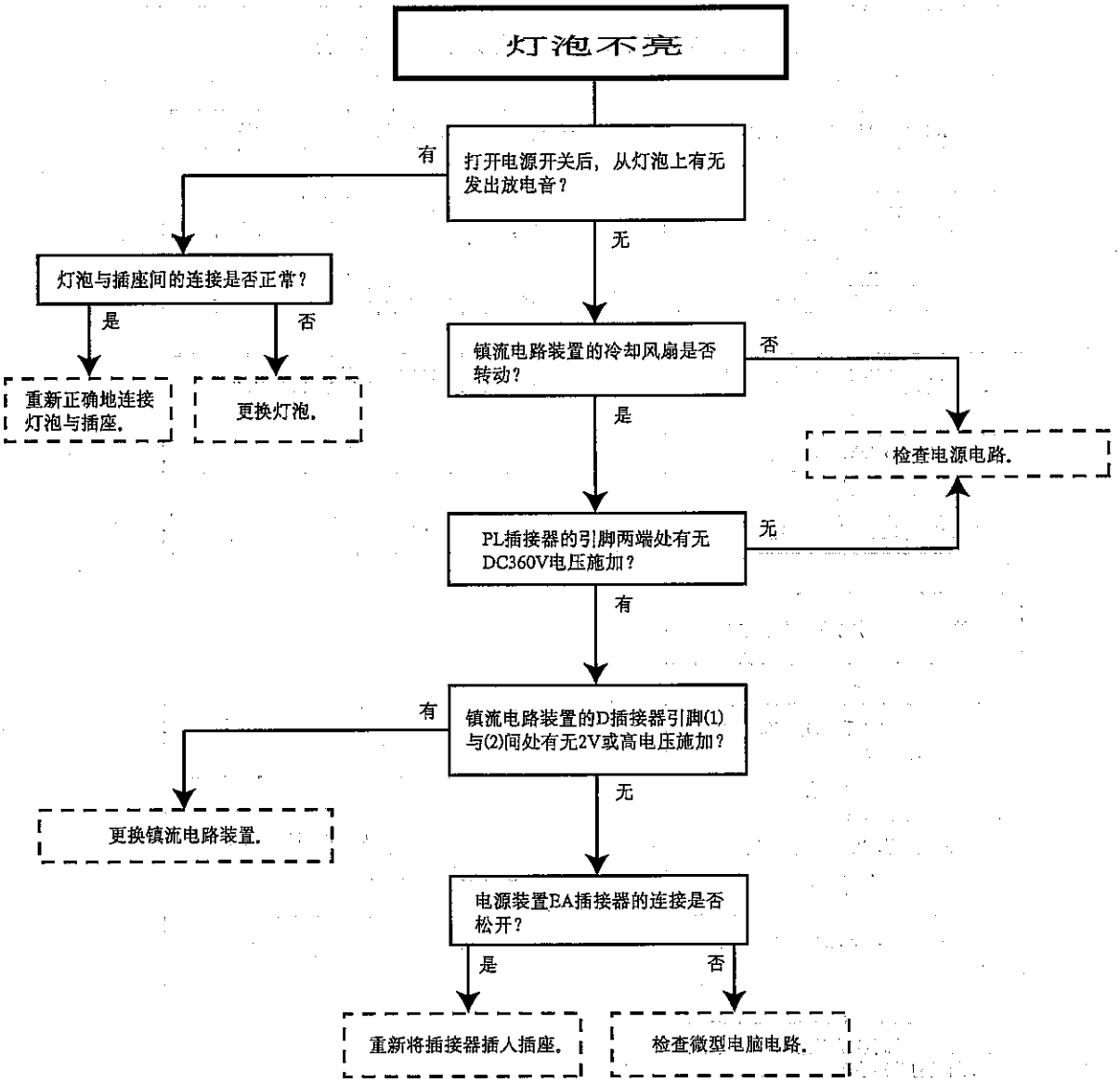
故障排除流程（接上页）


检查电源装置
EA插接器处无电压输出.
其它输出电压线路有无发生故障?
有
无
发生故障的线路是哪一个?
-7
P-FAN Vcc
更换ICP751.
更换R752.
EA插接器的连接部有无发生切断或松弛现象?
有
重新连接EA插接器.
无
PA插接器的两端处有无AC电压(85～264V)施加?
无
更换F701.
有
Q704是否断开?
否
更换IC702, T701或Q704.
Q752的集电儿极与发射极间有无短路?
有
无
更换Q752.
更换PC702.

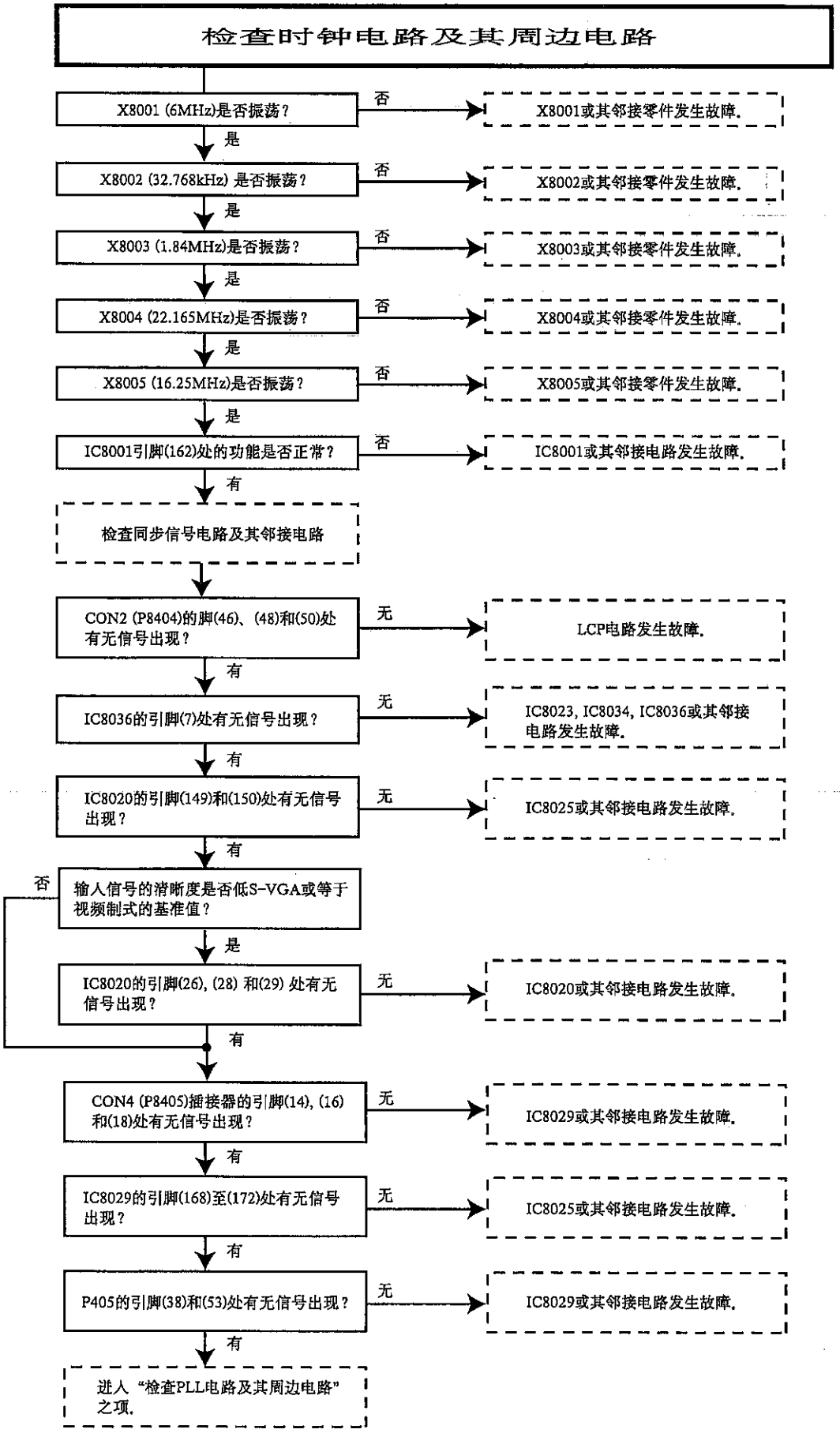
故障排除流程（接上页）


电源接续通
输入电压是否符合规定要求？
否
用遥控器选择正当的输入电压。
是
用于电脑，录像机及液晶显示板的电缆是否符合规定要求，并连接方法是否正当？
否
使用规定电缆或重新连接电缆。
是
没对比度控制于最大时有无图像出现？
有
重调视频制式。
无
CON3(P8502)插接器处的电压值是否符合规定要求？
否
电源电路发生故障。
是
接于电脑。
有无图像出现？
无
进入“检查时钟电路及其周边电路”之项。
有
图像是否符合规定要求？
否
检查同步信号电路及其周边电路。
是
图像彩色是否符合规定要求？
否
检查视频电路及其周边电路。
是
A
在屏表示动能是否正常？
否
进入“检查在屏表示电路及其周边电路”之项。
是
遥控器功能是否正常？
否
进入“检查遥控器”之项。
是
结束。

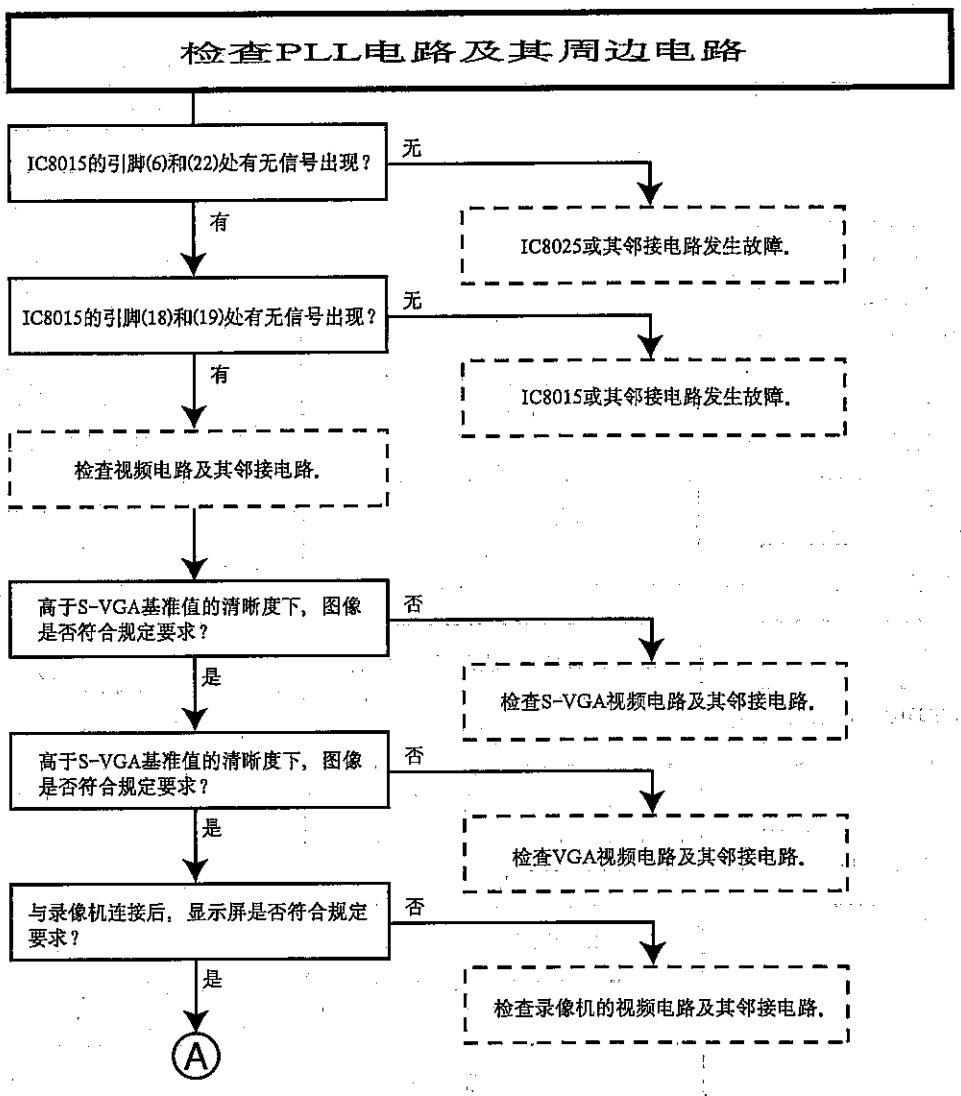
故障排除流程（接上页）


灯泡不亮
打开电源开关后，从灯泡上有无发出放电音？
有
无
灯泡与插座间的连接是否正常？
是
否
重新正确地连接灯泡与插座.
更换灯泡.
镇流电路装置的冷却风扇是否转动？
否
是
检查电源电路.
PL插接器的引脚两端处有无DC360V电压施加？
无
有
镇流电路装置的D插接器引脚(1)与(2)间处有无2V或高电压施加？
有
无
更换镇流电路装置.
电源装置EA插接器的连接是否松开？
是
否
重新将插接器插入插座.
检查微型电脑电路.

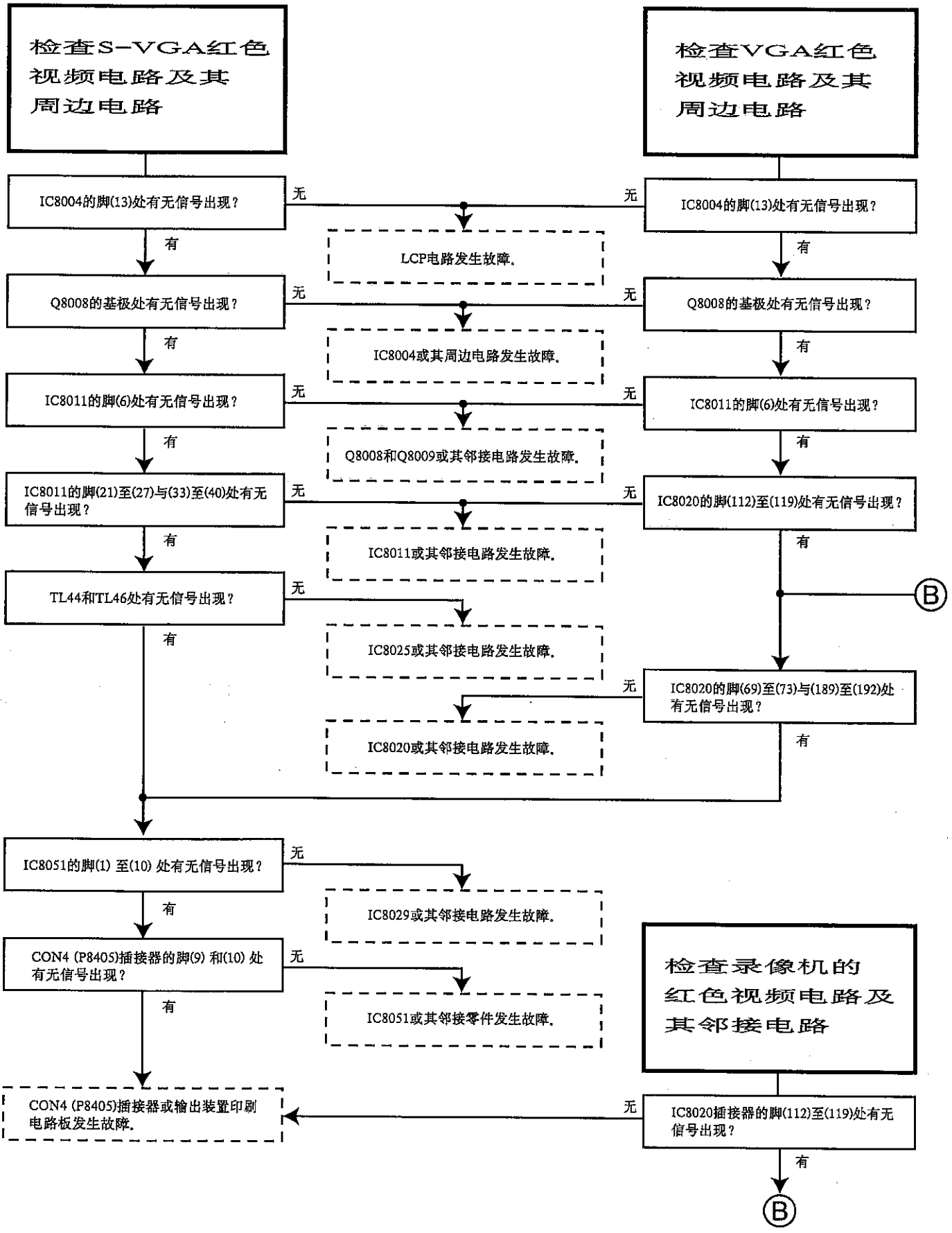
PC I/F 装置 -1 的故障排除流程



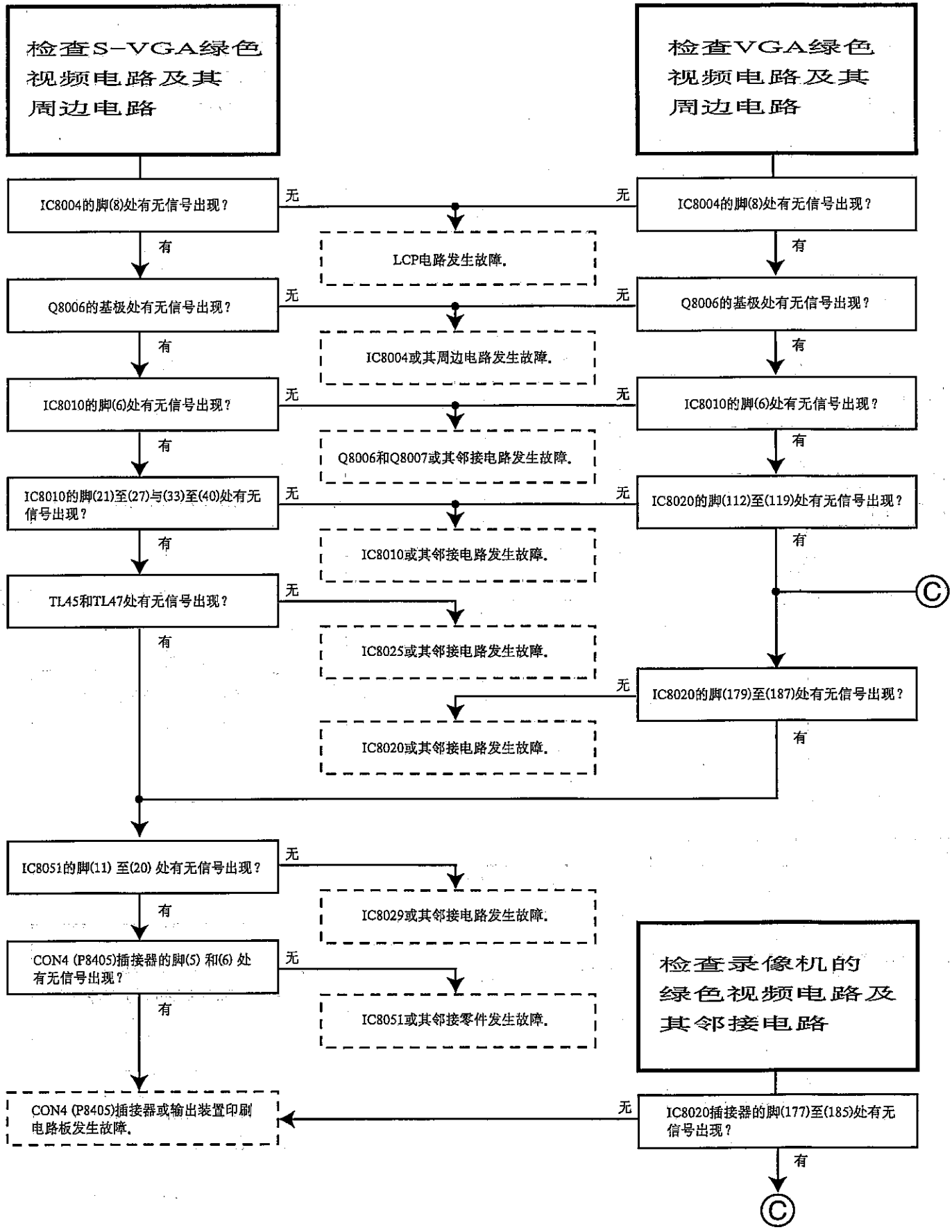
PC I/F装置 -2 的故障排除流程



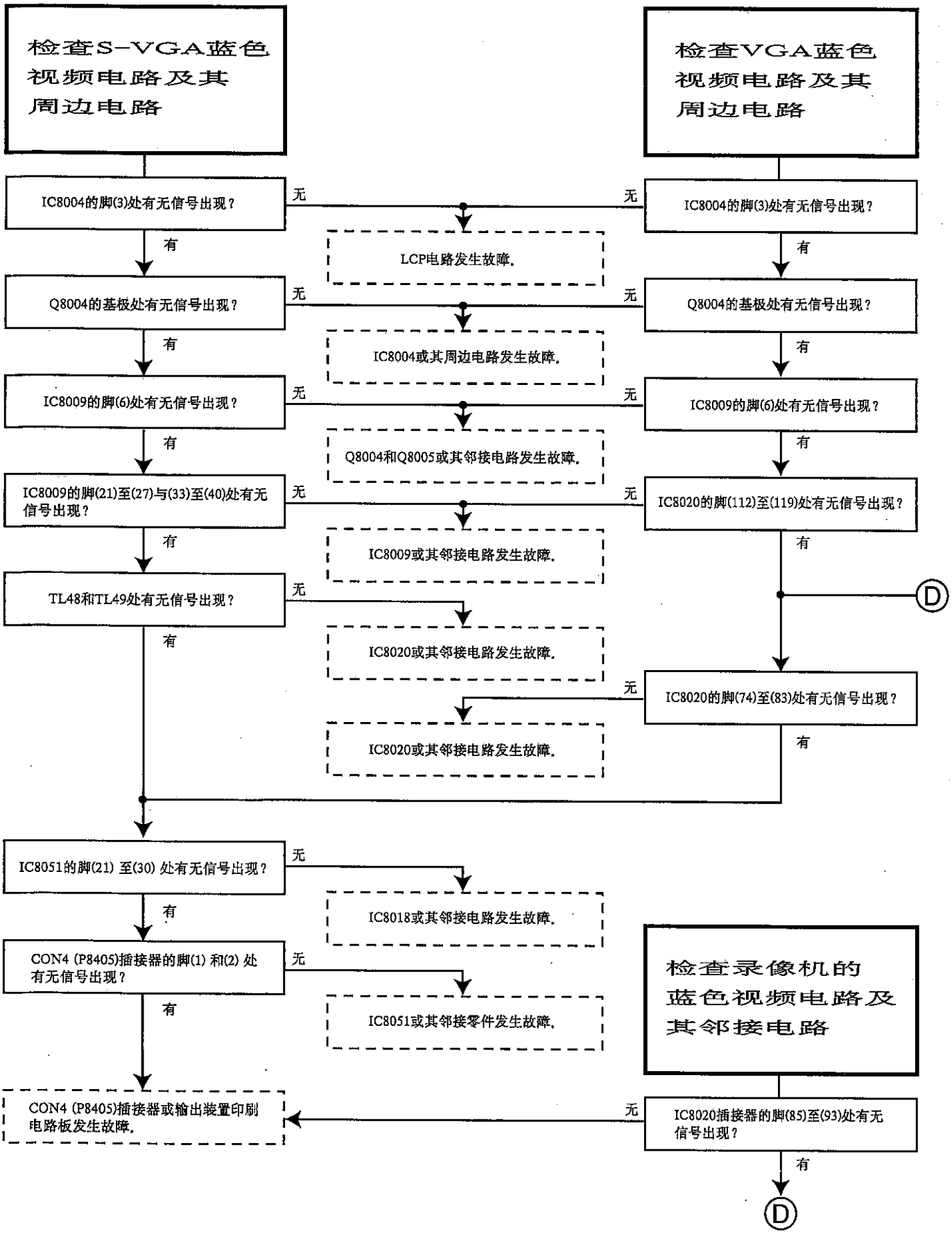
PC I/F 装置 -3 的故障排除流程



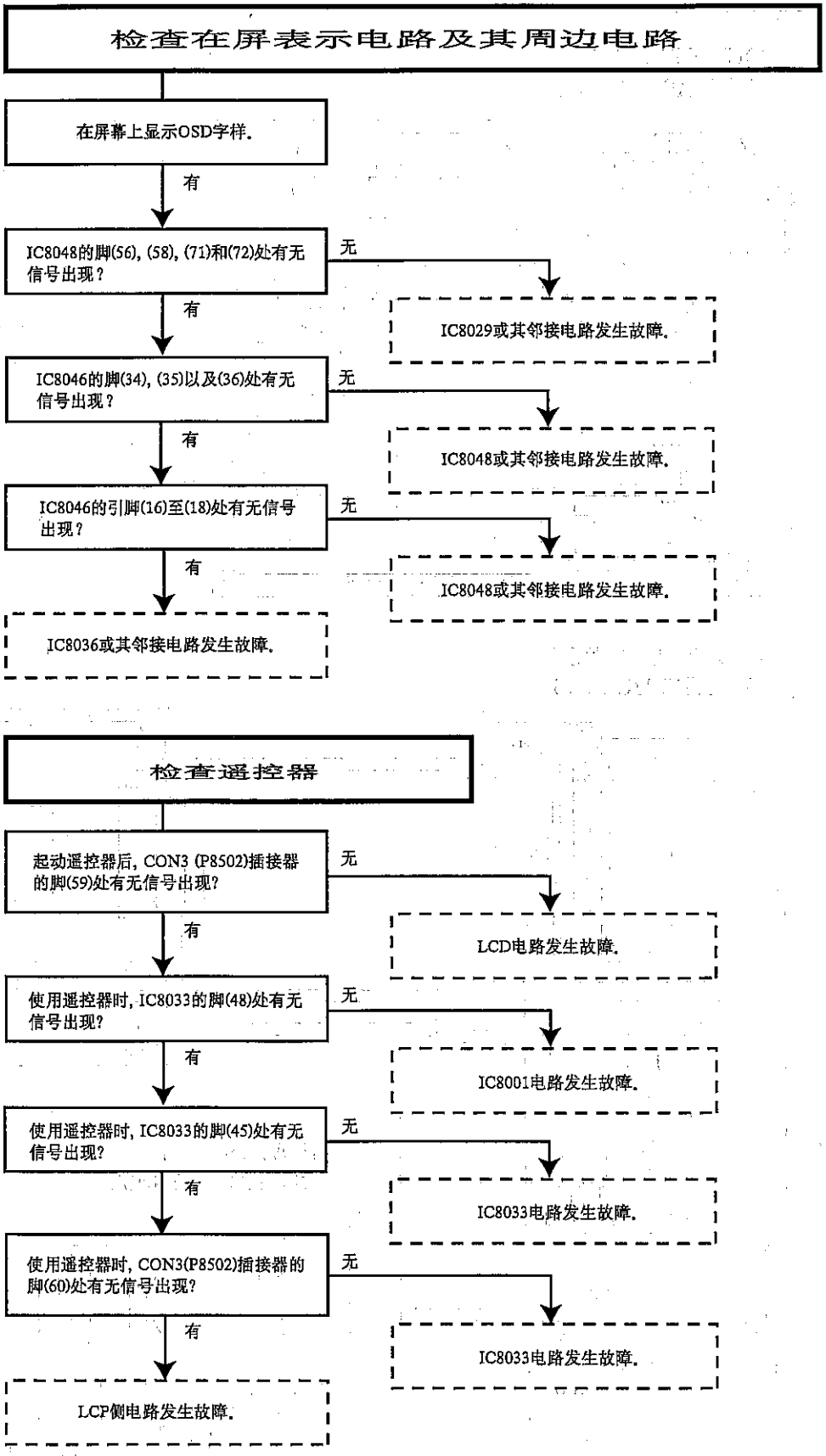
PC I/F 装置 -4 的故障排除流程



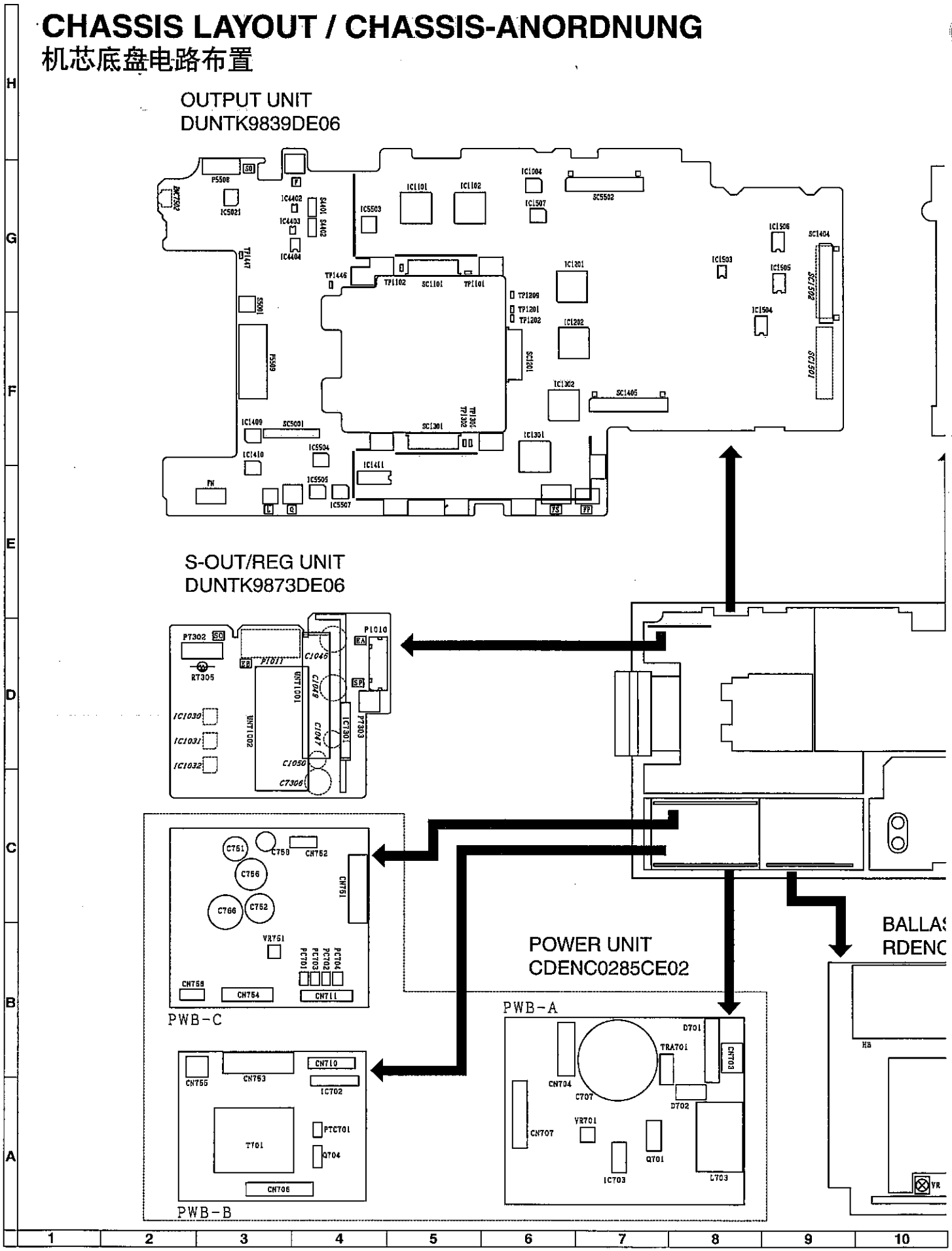
PC I/F 装置 -5 的故障排除流程



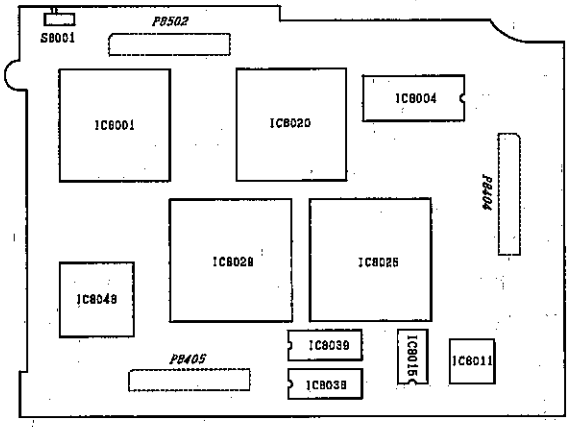
PC I/F 装置 -6 的故障排除流程



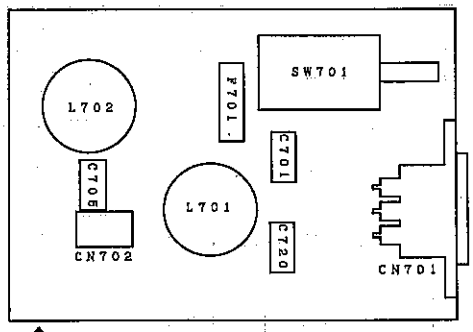
CHASSIS LAYOUT / CHASSIS-ANORDNUNG
机芯底盘电路布置



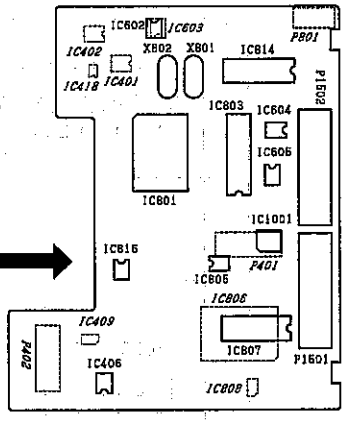
PC I/F UNIT
CPCI-0031CE04



INLET UNIT
RUNTK0667CEZZ

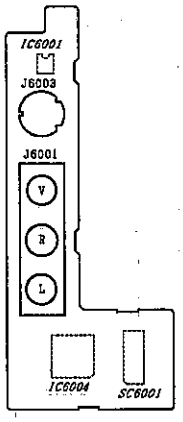


SIGNAL UNIT
DUNTK9856DE06



IR-DA UNIT
DUNTK9858DE06

VIDEO UNIT
DUNTK9769DE16



PC TERMINAL UNIT
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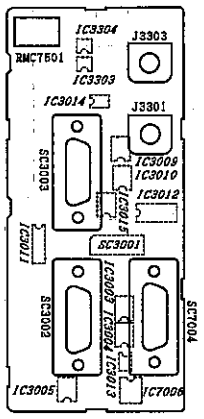
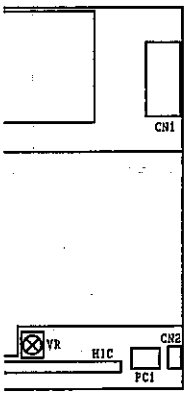
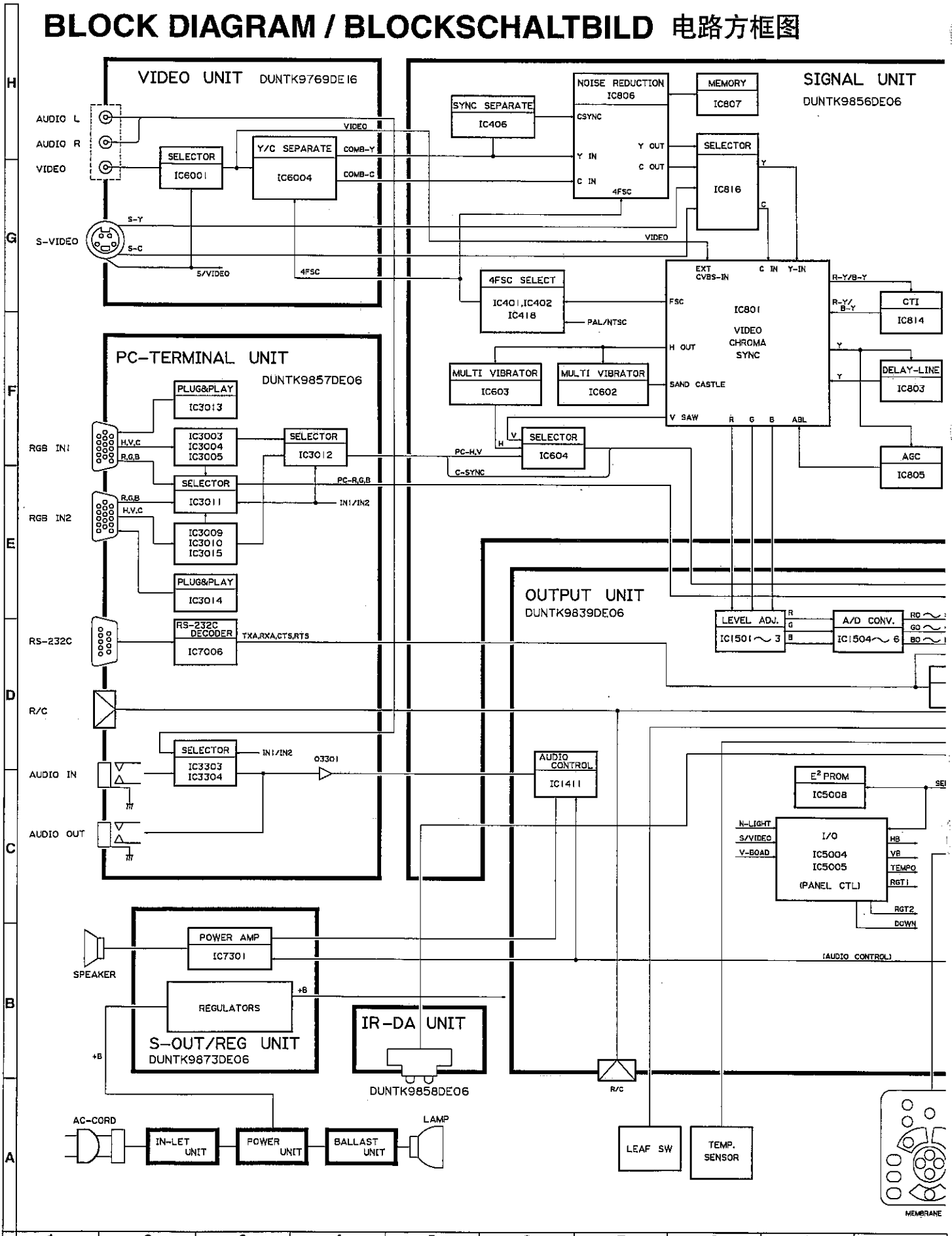


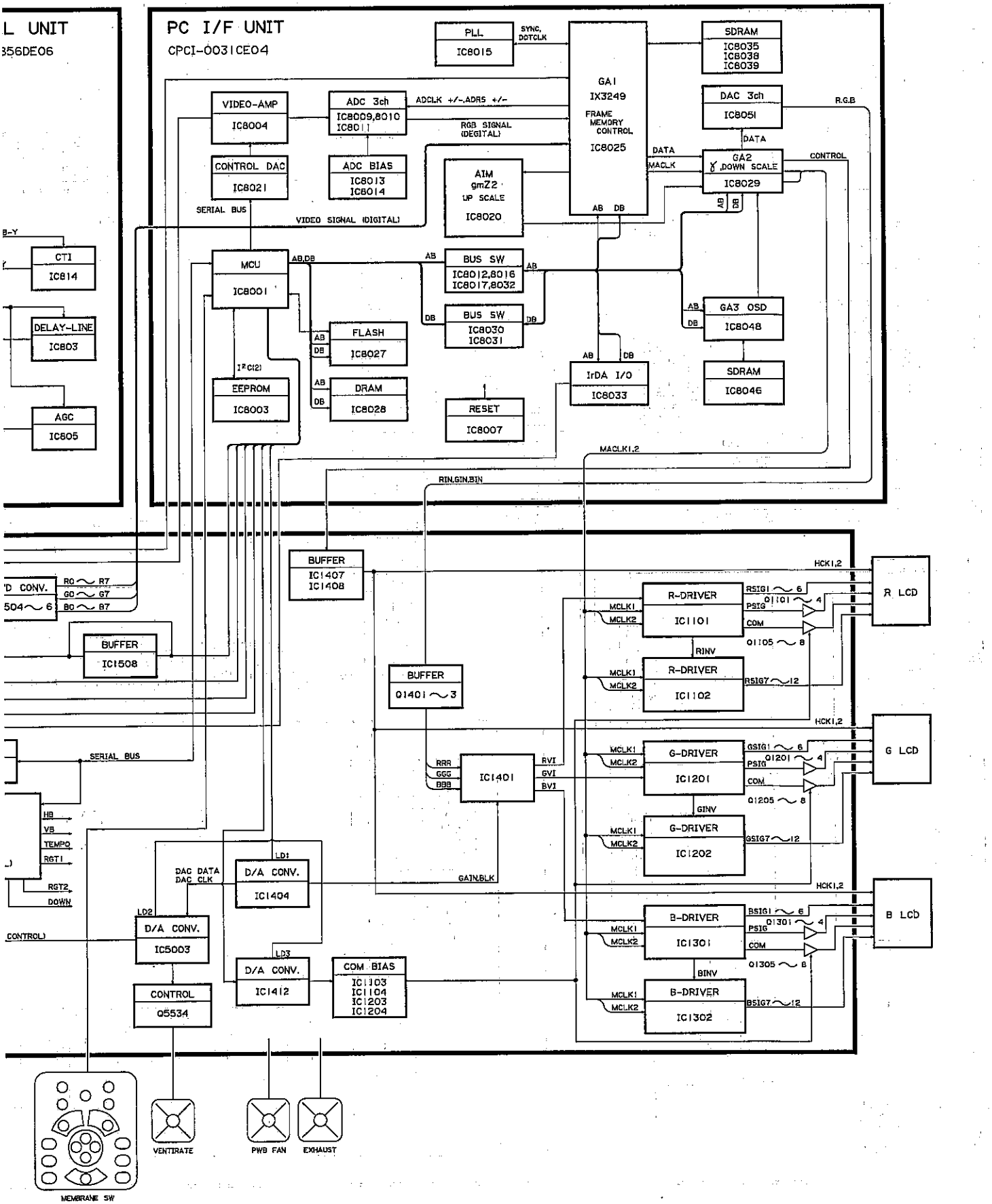
ALLAST UNIT
DENC0290CEZZ



10	11	12	13	14	15	16	17	18	19

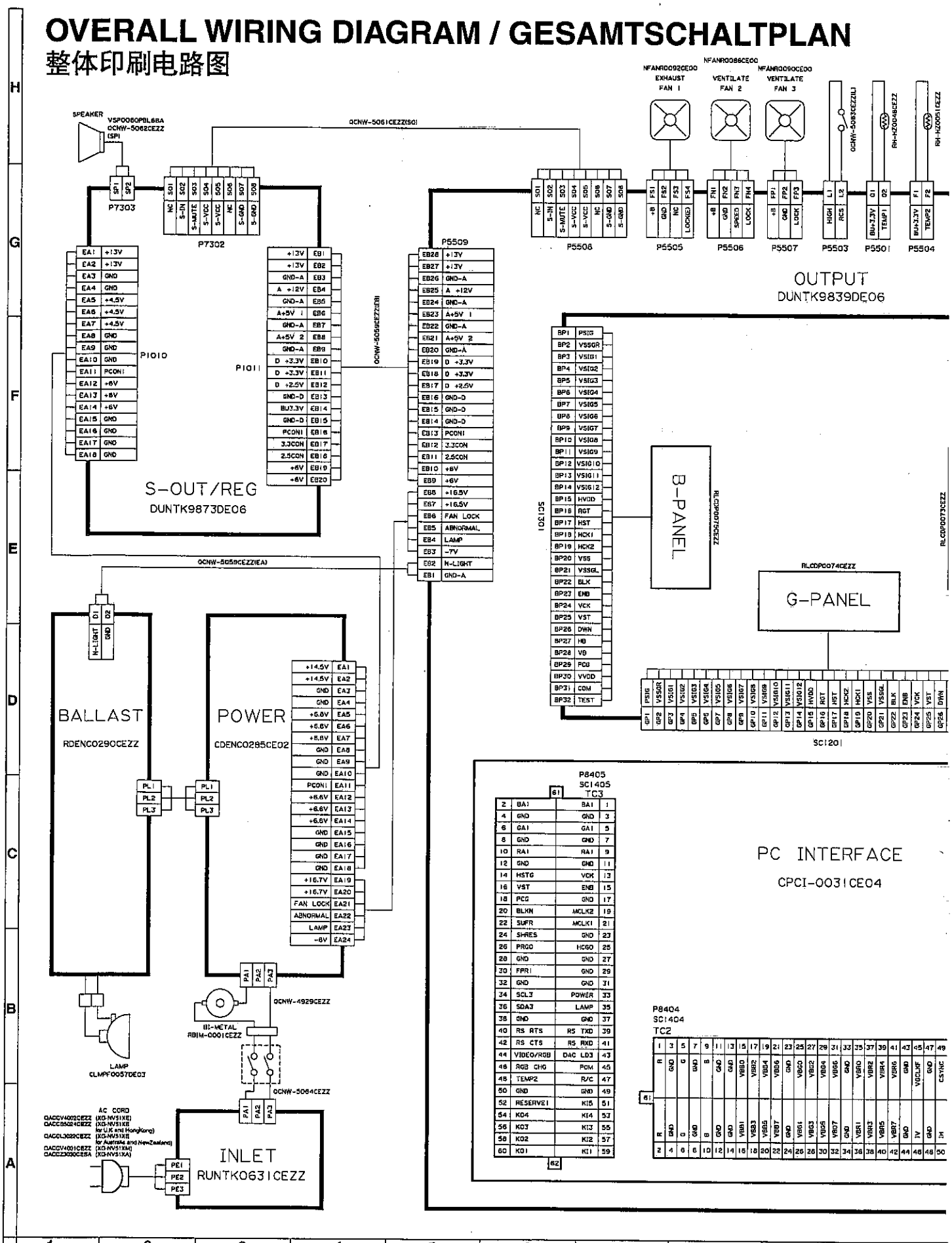
BLOCK DIAGRAM / BLOCKSCHALTBILD 电路方框图

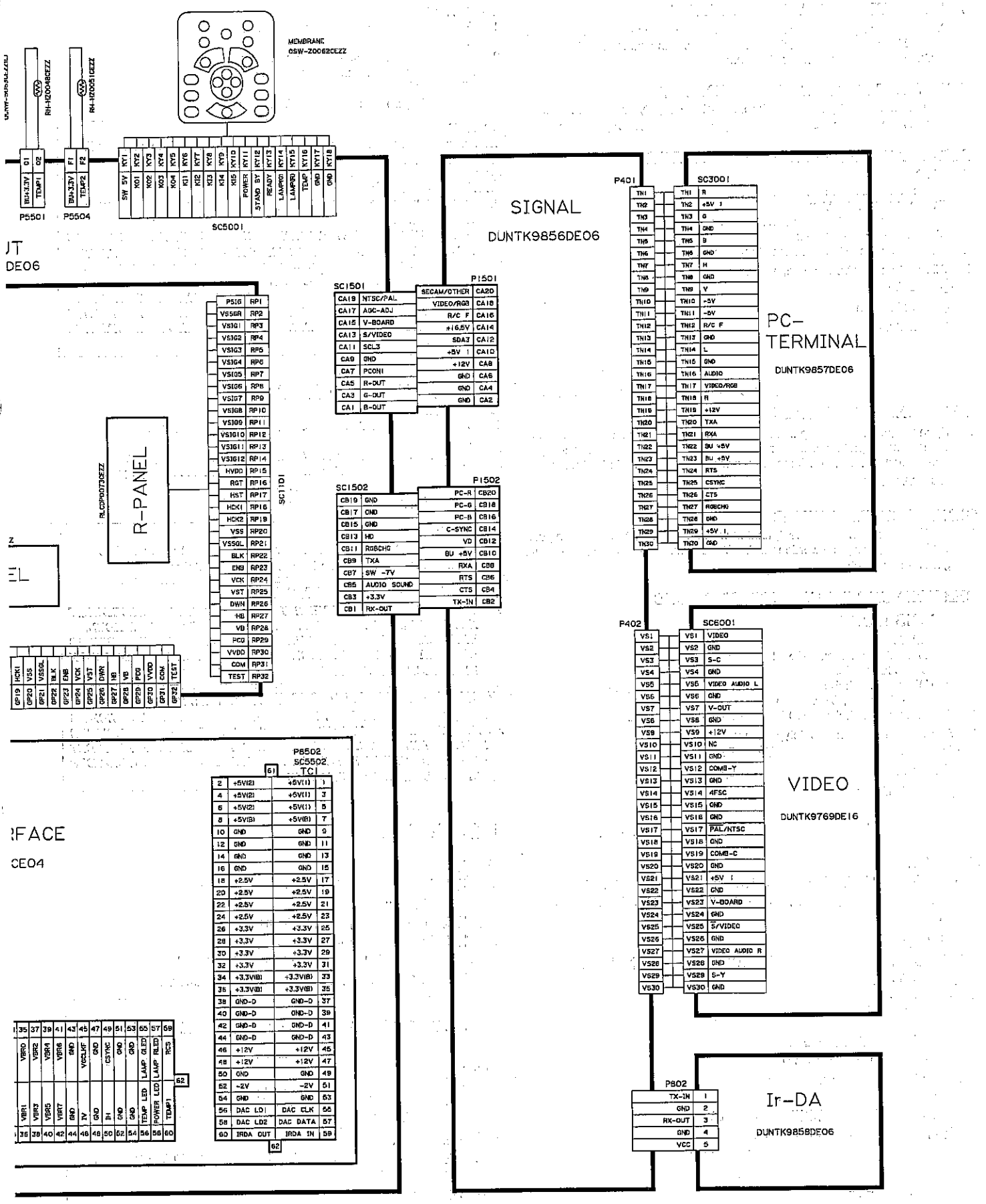




10	11	12	13	14	15	16	17	18	19

OVERALL WIRING DIAGRAM / GESAMTSCHALTPLAN
整体印刷电路图




MEMBRANE
CSW-Z0062CEZZ
P5501
P5504
SC5001
SIGNAL
DUNTK9856DE06
P401
SC3001
PC-
TERMINAL
DUNTK9857DE06
SC1501
P1501
SC1502
P1502
SC1101
R-PANEL
P402
SC6001
VIDEO
DUNTK9769DE16
P8502
SC5502
TCI
P802
Ir-DA
DUNTK9858DE06

DESCRIPTION OF SCHEMATIC DIAGRAM

VOLTAGE MEASUREMENT CONDITION:

1. Voltages at test points are measured at the supply voltage of AC 230V. Signals are fed by a colour bar signal generator for servicing purpose and the above voltages are measured with a 20k ohm/V tester.

WAVEFORM MEASUREMENT CONDITION:

1. Waveforms at test points are observed at the supply voltage of AC 230V. Signals are fed by a colour bar signal generator for servicing purpose.

INDICATION OF RESISTOR & CAPACITOR:

RESISTOR

1. The unit of resistance "Ω" is omitted. (K=kΩ=1000 Ω, M=MΩ).
2. All resistors are ± 5%, unless otherwise noted. (J= ± 5%, F= ± 1%, D= ± 0.5%)
3. All resistors are 1/10W, unless otherwise noted.
4. All resistors are Carbon type, unless otherwise noted.

Ⓒ : Solid　　Ⓦ : Cement
Ⓢ : Oxide Film　　Ⓣ : Special
Ⓝ : Metal Coating

CAPACITOR

1. All capacitors are μF, unless otherwise noted. (P=pF=μμF).
2. All capacitors are 50V, unless otherwise noted.
3. All capacitors are Ceramic type, unless otherwise noted.

(ML): Mylar　　(TA): Tantalum
(PF): Polypro Film　　(ST): Styrol

CAUTION:
This circuit diagram is original one, therefore there may be a slight difference from yours.

SAFETY NOTES:

1. ***DISCONNECT THE AC PLUG FROM THE AC OUTLET BEFORE REPLACEING PARTS.***
2. ***SEMICONDUCTOR HEAT SINKS SHOULD BE REGARDED AS POTENTIAL SHOCK HAZARDS WHEN THE CHASSIS IS OPERATING.***

IMPORTANT SAFETY NOTICE:

PARTS MARKED WITH "⚠"(▓▓▓)ARE IMPORTANT FOR MAINTAINING THE SAFETY OF THE SET. BE SURE TO REPLACE THESE PARTS WITH SPECIFIED ONES FOR MAINTAINING THE SAFETY AND PERFORMANCE OF THE SET.

BESCHREIBUNG DES SCHEMATISCHEN SCHALTPLANS

SPANNUNGSMESSUNGEN:

1. Spannungen an den Prüfpunkten werden bei einer Netzspannung von 230V gemessen. Signale werden für die Wartung mit einem Farbbalken-Signal generator zugeführt, und Spannungen werden mit einem Meßinstrument (20 kΩ/V) ermittelt.

SIGNALFORMMESSUNGEN:

1. Die Wellenformen an den Testpunkten werden bei einer Netzspannung von 230V verfolgt. Signale werden für die Wartung mit einem Farbbalken-Signal generator zugeführt.

BEZEICHNUNG DES WIDERSTANDS UND KONDENSATORS:

WIDERSTAND

1. Die Widerstandseinheit "Ω" wird weggelassen. (K=kΩ=1000 Ω, M=MΩ).
2. Alle Widerstände haben ± 5%, sofern nicht anders angegeben. (J= ± 5%, F= ± 1%, D= ± 0.5%)
3. Alle Widerstände haben 1/10W, sofern nicht anders angegeben.
4. Alle Widerstände sind Kohletyp, sofern nicht anders angegeben.

Ⓒ : Fest　　Ⓦ : Zement
Ⓢ : Oxidfilm　　Ⓣ : Spezial
Ⓝ : Metallüberzug

KONDENSATOR

1. Die Kapazitätseinheit ist μF, sofern nicht anders angegeben. (P=pF=μμF).
2. Alle Kondensatoren haben 50V, sofern nicht anders angegeben.
3. Alle Kondensatoren sind Keramiktyp, sofern nicht anders angegeben.

(ML): Mylar　　(TA): Tantal
(PF): Polyprofilm　　(ST): Styrol

ACHTUNG:
bei diesem Schaltplan handelt es sich um den ursprünglichen. Esönnen daher geringfügige Unterschiede zu dem Ihrem bestehen.

SICHERHEITSANMERKUNGEN:

1. ***VOR DEM AUSWECHSELN VON TEILEN MUSS UNBEDINGT NETZSTECKER AUS DER NETZSTECKDOSE GEZOGEN WERDEN.***
2. ***DIE WARMEABLEITER DER HALBLEITER SOLLTEN BEIM BETRIEB DES CHASSIS ALS MÖGLICHE URSACHEN VON GEFÄHRLICHEN ELEKTRISCHEN SCHLÄGEN BETRACHTET WERDEN.***

WICHTIGE SICHERHEITSANMERKUNGEN:

MIT "⚠"(▓▓▓)BEZEICHNETEN TEILE SIND BESONDERS WICHTIG FÜR DIE AUFRECHTERHALTUNG DER SICHERHEIT . BEIM WECHDIESER TEILE SOLLTEN DIE VORGESCHRIEBENEN TEILE IMMER VERWENDET WERDEN, UM SOWOHL DIE SICHERHEIT ALS AUCH DIE LEISTUNG DES GERÄTES AUFRECHTZUERHALTEN.

电 路 原 理 图 的 说 明

电压测定条件：

1. 各测试点上的电压值是用AC230V电源电压来测定的。各种信号由维修专用的彩条信号发生器产生的，各种有关电压值是用20千欧姆/伏测试仪测定的。

波形测定条件：

1. 各测试点上的波形是用AC230V电源电压观察到的。各种信号由维修专用的彩条信号发生器产生的。

电阻与电容器的表示：

电阻

1. 电阻欧姆"Ω"单位予以略记。(K = kΩ = 1000Ω, M = 兆Ω)。
2. 除特别说明者外，所有的电阻为 ± 5 %。(J = ± 5 %, F = ± 1 %, D = ± 0.5 %)。
3. 除特别说明者外，所有的电阻功率为1/10W。
4. 除特别说明者外，所有的电阻为碳质。

Ⓒ ：固体电阻　　Ⓦ ：陶瓷电阻
Ⓢ ：氧化膜电阻　　Ⓣ ：特殊电阻
Ⓝ ：金属涂层电阻

电容器

1. 除特别说明者外，所有的电容器单位为微法(μF)。(P = 微微法 = μμF)。
2. 除特别说明者外，所有的电容器为50伏。
3. 除特别说明者外，所有的电容器为陶瓷质。

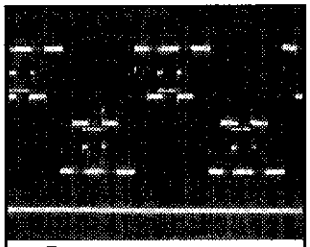
(ML) ：聚酯薄膜电容器　　(TA) ：钽质电容器
(PF) ：聚乙烯薄膜电容器　　(ST) ：聚苯乙烯电容器

注意：
这里的电路原理图均为最初设计原理图，与您的机器的电路原理图可能有不同之处。

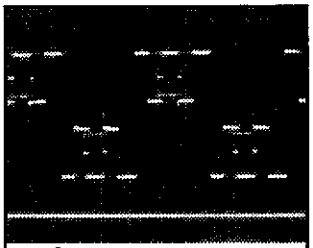
安全使用注意事项：
1. 在进行部件更换之前，务请拔出电源插头。
2. 本装置工作时，机芯底盘的半导体散热片有触电之虑，务请注意。

安全使用注意要点：
标有"⚠"(▓▓▓)的部件对于投影机安全的维护有至关重要的意义。为了维护本机的安全和使本机能正常工作，必须使用指定品来更换这些部件。

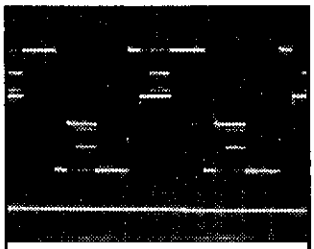
WAVEFORMS
WELLENFORMEN
波形图



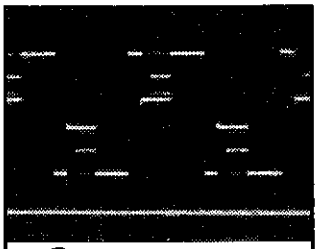
① SC1101 7-pin
(RP SIG5)
H : 10µsec/div
V : 2V/div



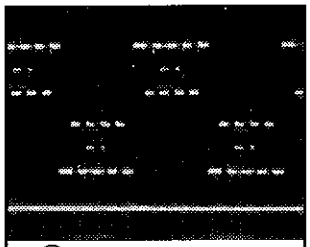
② SC1101 8-pin
(RP SIG6)
H : 10µsec/div
V : 2V/div



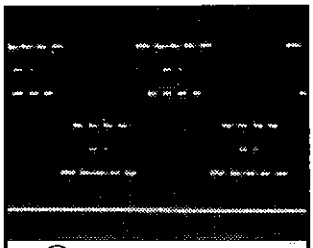
③ SC1201 7-pin
(GP SIG5)
H : 10µsec/div
V : 2V/div



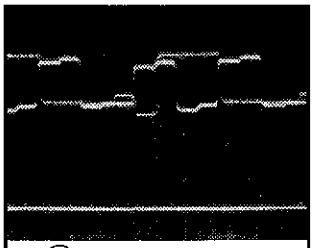
④ SC1201 8-pin
(GP SIG6)
H : 10µsec/div
V : 2V/div



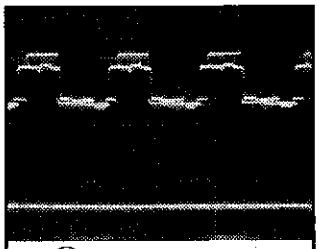
⑤ SC1301 7-pin
(BP SIG5)
H : 10µsec/div
V : 2V/div



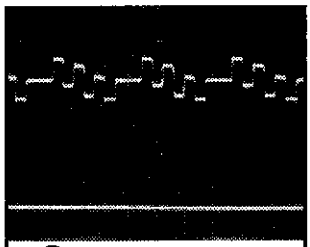
⑥ SC1301 8-pin
(BP SIG6)
H : 10µsec/div
V : 2V/div



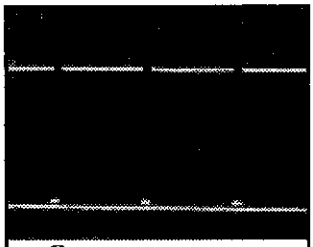
⑦ P801 1-pin
(R)
H : 10µsec/div
V : 0.5V/div



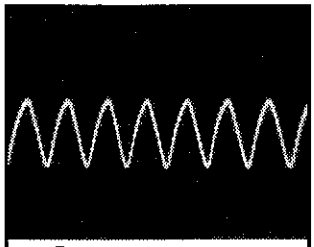
⑧ P801 2-pin
(G)
H : 20µsec/div
V : 0.5V/div



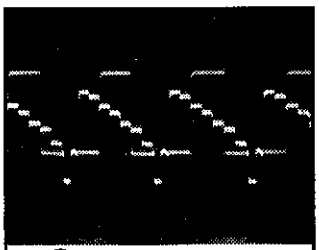
⑨ P801 4-pin
(B-Y)
H : 20µsec/div
V : 1V/div



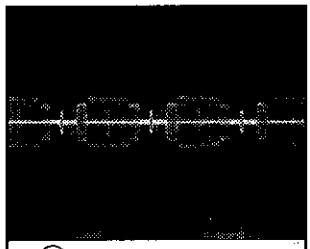
⑩ IC604 6-pin
(H-OUT)
H : 20µsec/div
V : 1V/div



⑪ Q422 Emitter
(4FSC)
H : 50µsec/div
V : 0.5V/div

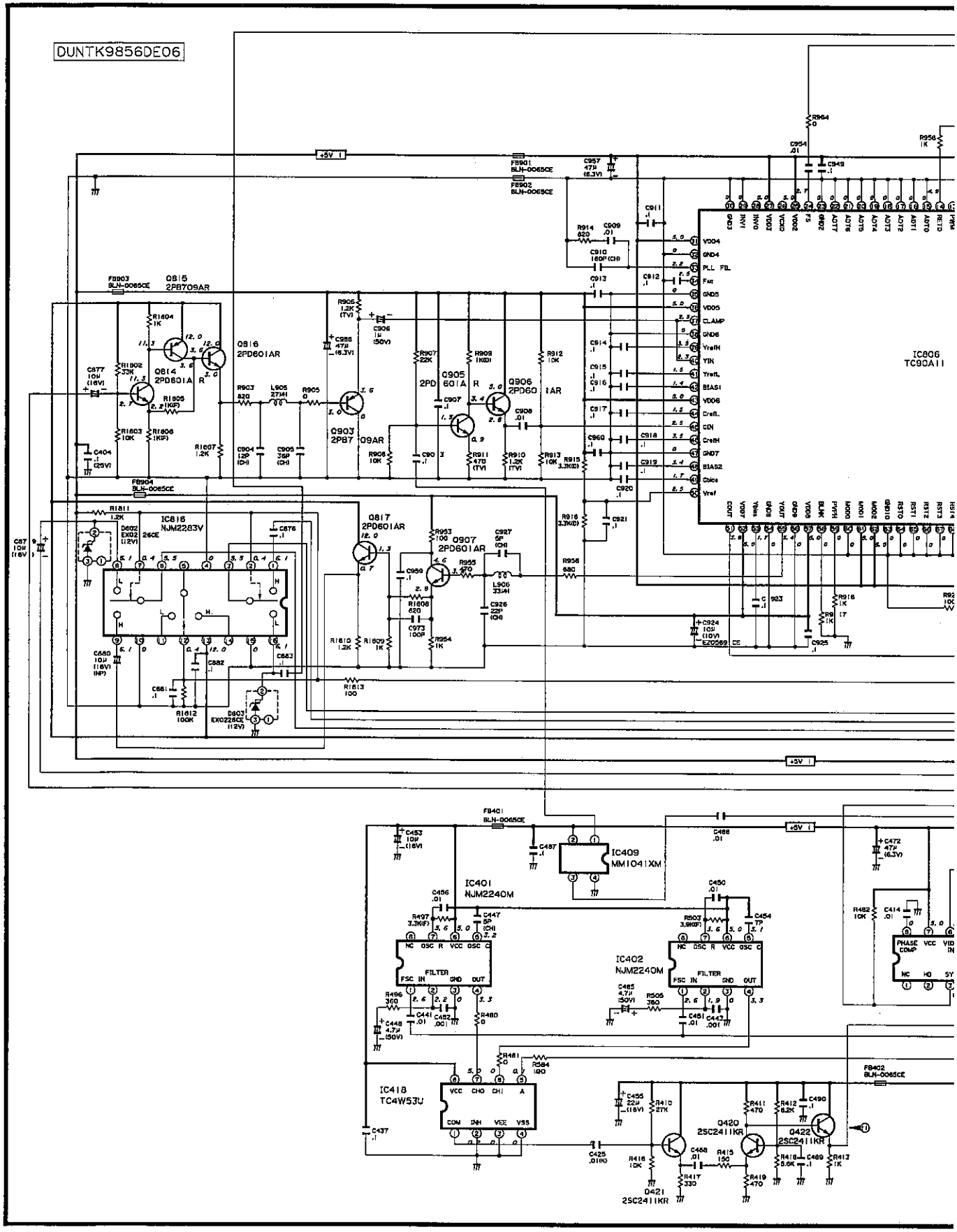


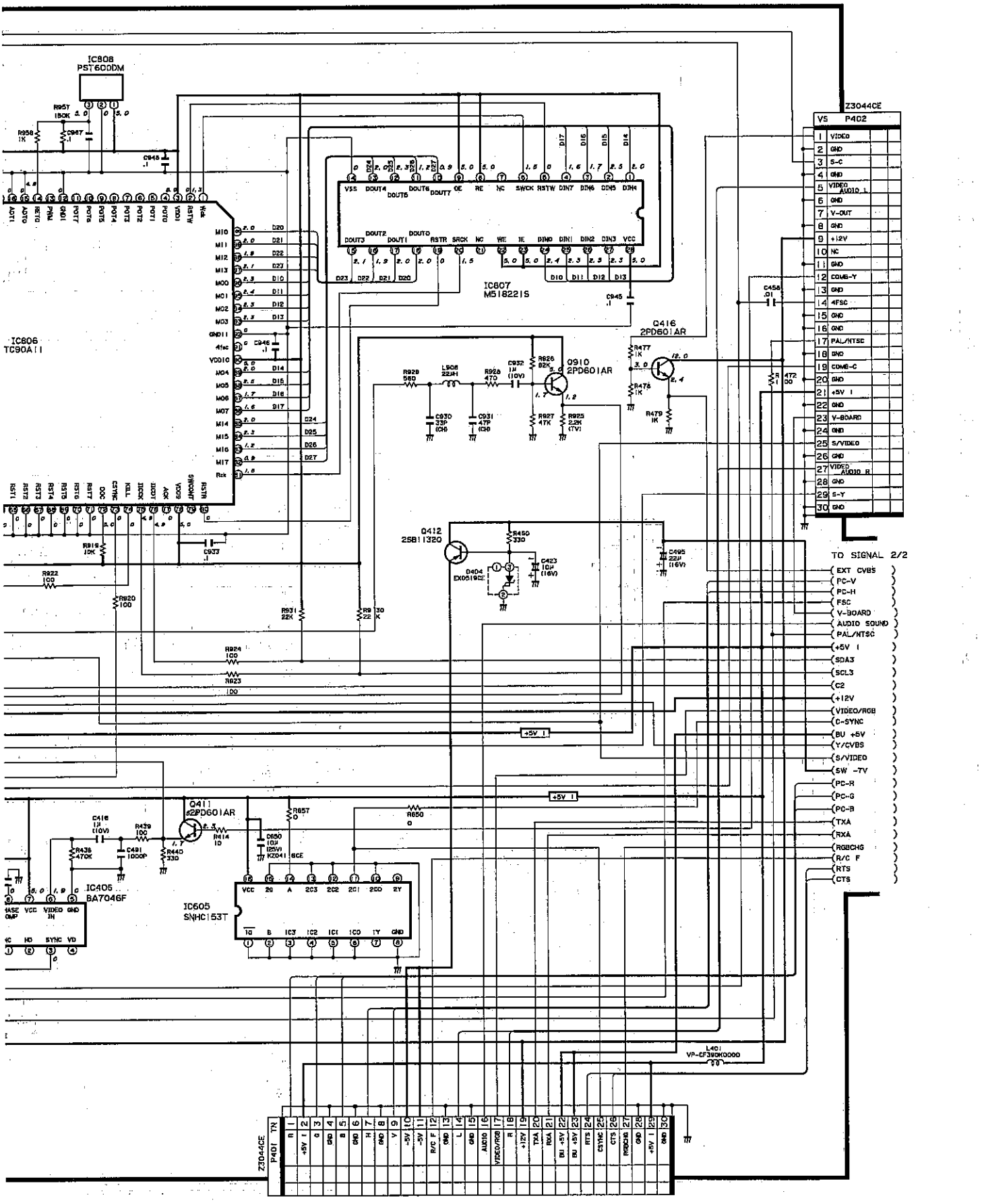
⑫ Q6008 Emitter
(Y-signal)
H : 10µsec/div
V : 0.2V/div



⑬ Q6003 Emitter
(CHROMA signal)
H : 10µsec/div
V : 0.2V/div

■ SIGNAL UNIT-1/2 / SIGNALEINHEIT-1/2 信号电路装置-1/2

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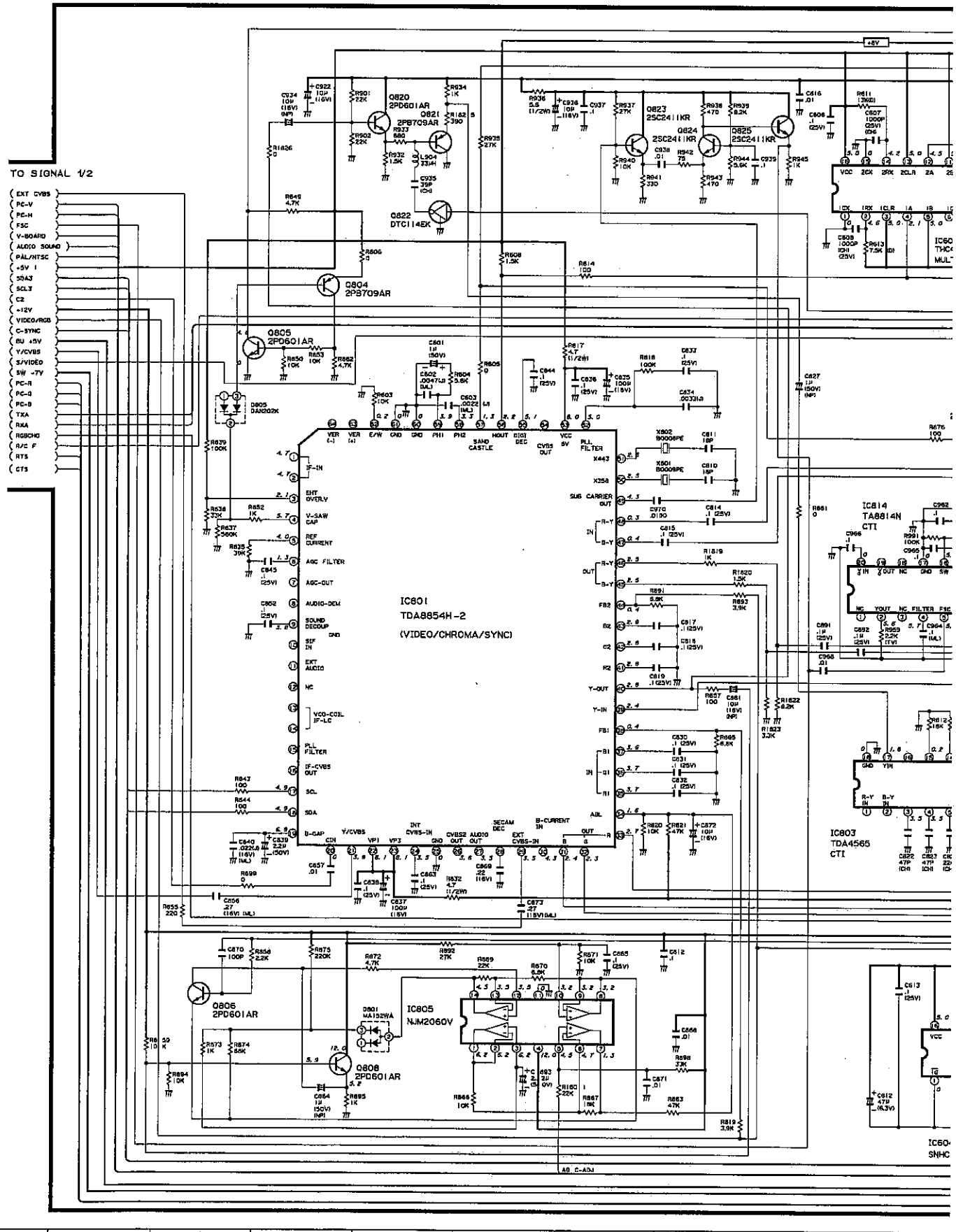
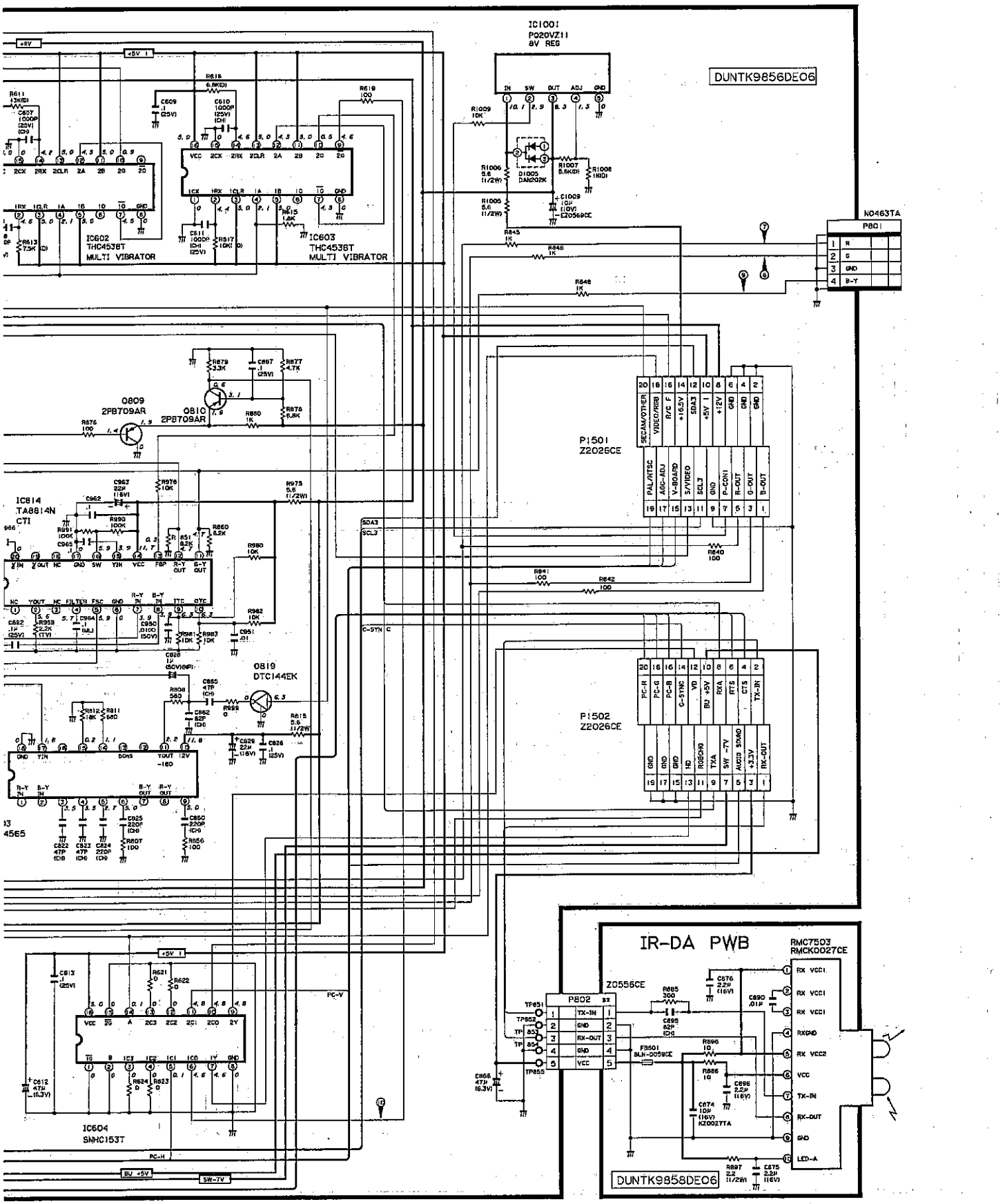
PST6008M
IC807
M51822IS
IC806
TC90A11
IC405
BA7046F
IC605
SN74HC153T
Q416
2PD601AR
Q910
2PD601AR
Q412
2SB1132Q
Q411
2PD601AR
D404
EX0519CE
L401
VP-CF39K0000
Z3044CE
VS P402
1 VIDEO
2 GND
3 S-C
4 GND
5 VIDEO AUDIO L
6 GND
7 V-OUT
8 GND
9 +12V
10 NC
11 GND
12 COMB-Y
13 GND
14 4FSC
15 GND
16 GND
17 PAL/NTSC
18 GND
19 COMB-C
20 GND
21 +5V I
22 GND
23 V-BOARD
24 GND
25 S/VIDEO
26 GND
27 VIDEO AUDIO R
28 GND
29 S-Y
30 GND
TO SIGNAL 2/2
EXT CVBS
PC-V
PC-H
FSC
V-BOARD
AUDIO SOUND
PAL/NTSC
+5V I
SDA3
SCL3
C2
+12V
VIDEO/RGB
C-SYNC
BU +5V
Y/CVBS
S/VIDEO
SW -7V
PC-R
PC-G
PC-B
TXA
RXA
RGBCHG
R/C F
RTS
CTS
Z3044CE P401 TN

■ IR-DA and SIGNAL UNIT-2/2 / IR-DA und SIGNALEINHEIT-2/2

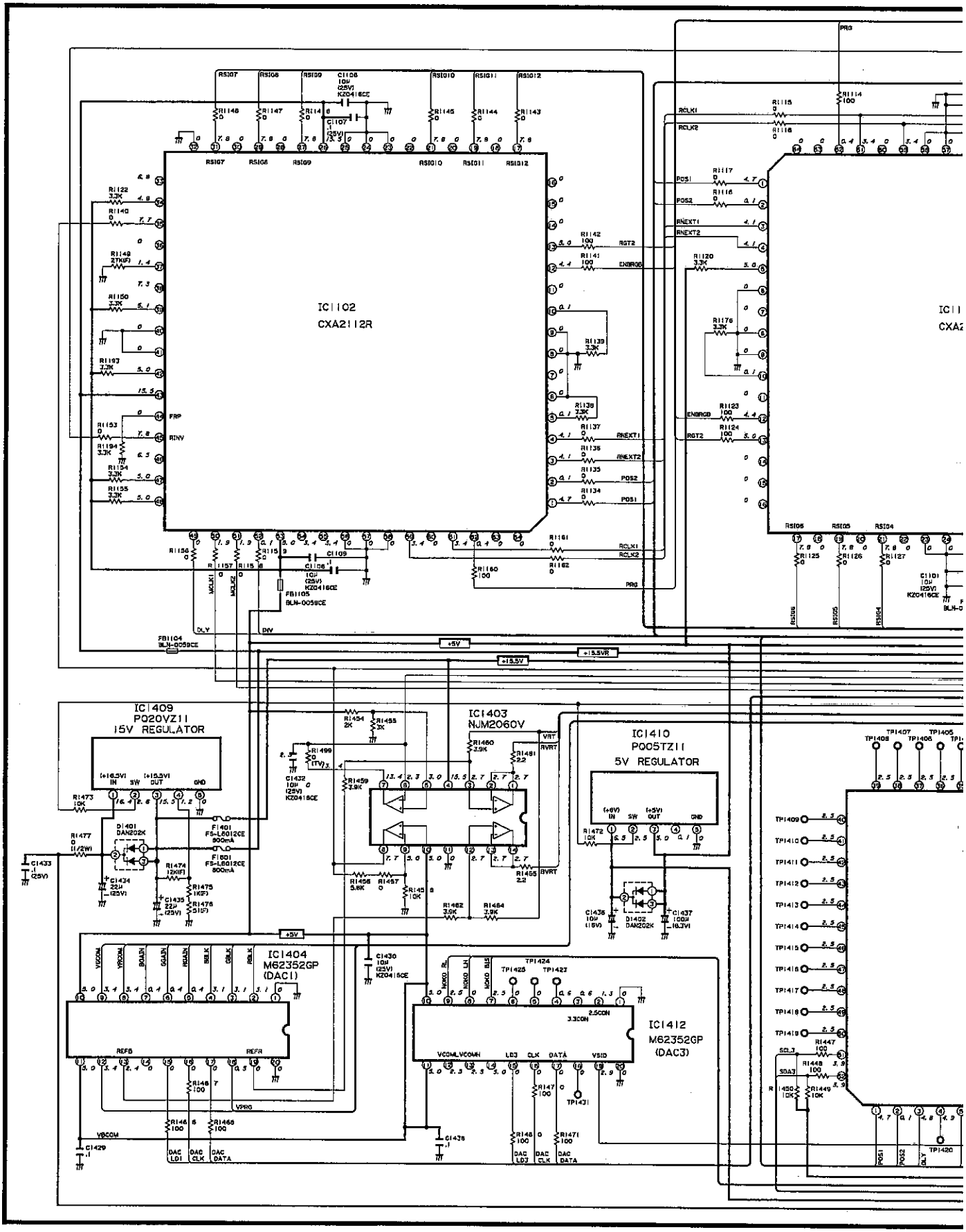
IR-DA和信号电路装置-2/2

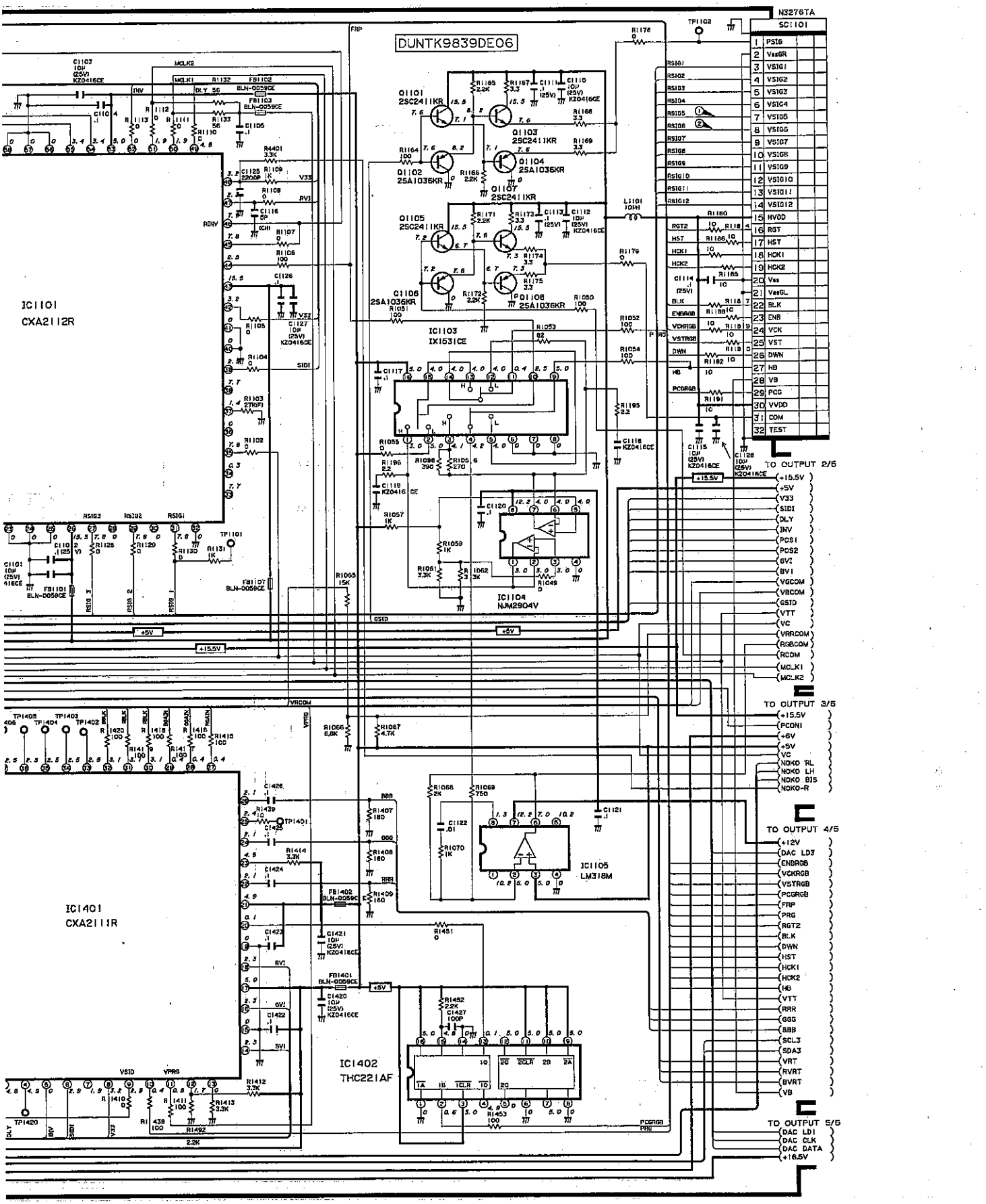




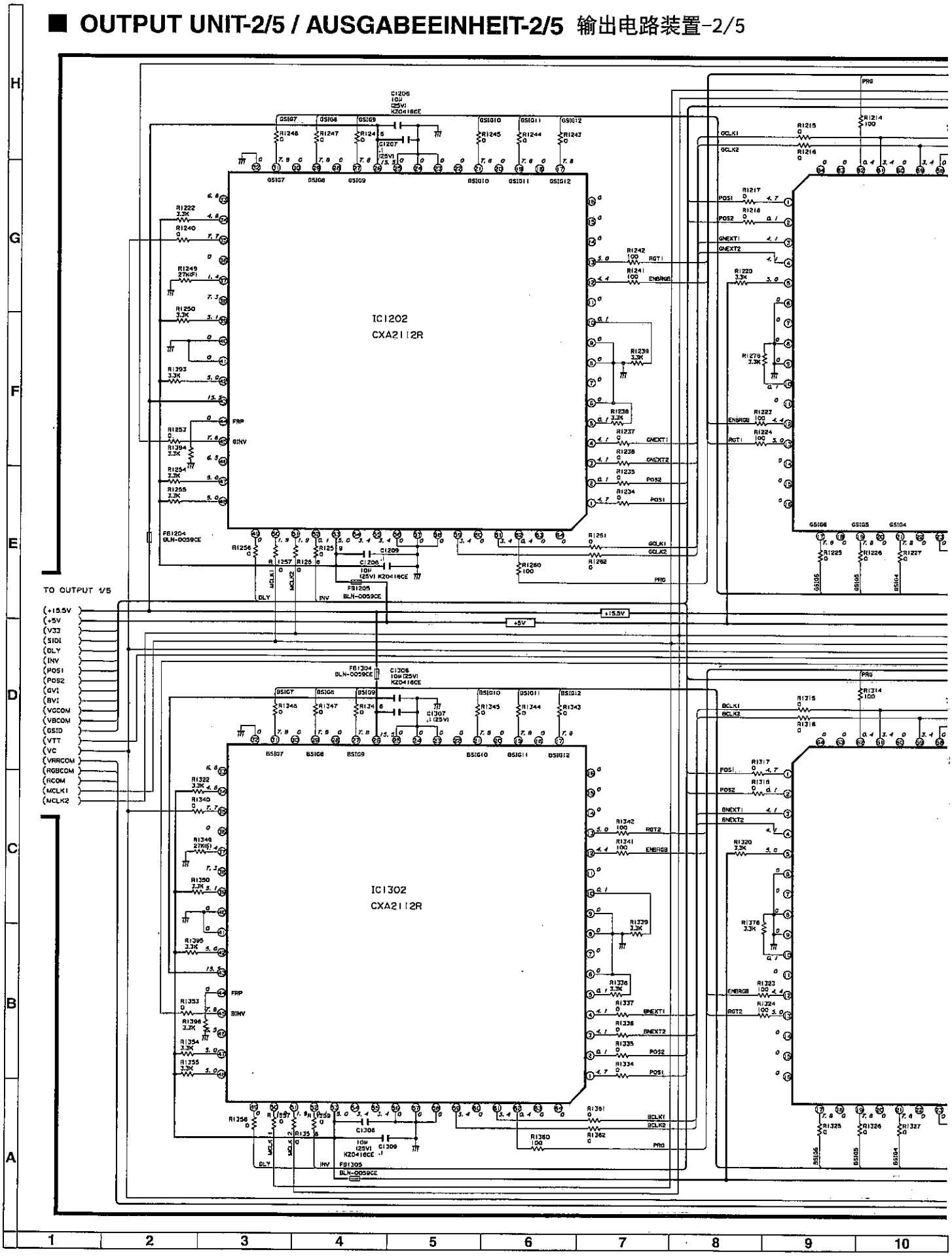
10	11	12	13	14	15	16	17	18	19

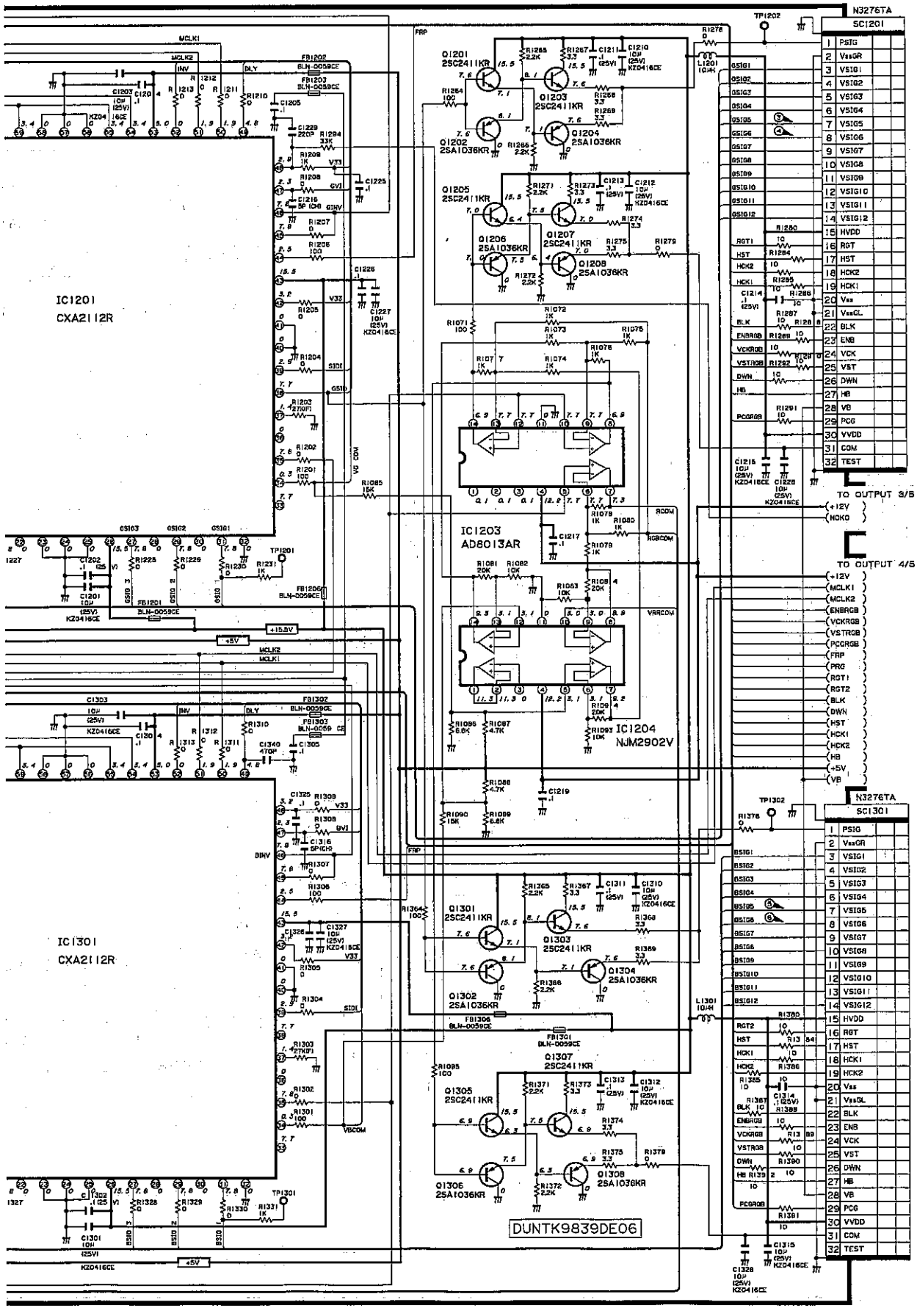
■ OUTPUT UNIT-1/5 / AUSGABEEINHEIT-1/5 输出电路装置-1/5



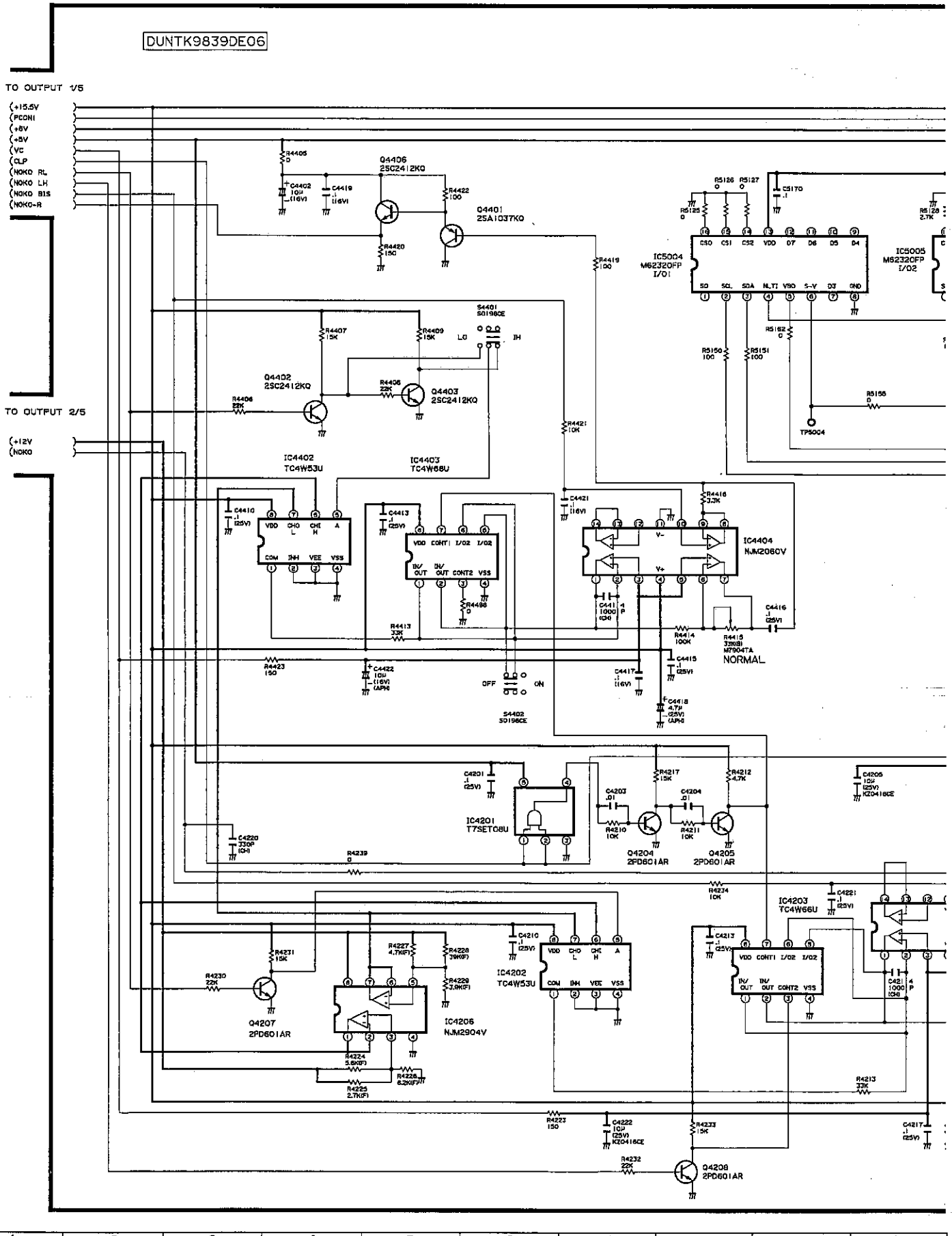

DUNTK9839DE06
IC1101
CXA2112R
IC1103
IX1531CE
IC1104
NJM2904V
IC1105
LM318M
IC1401
CXA2111R
IC1402
THC221AF
TO OUTPUT 2/5
TO OUTPUT 3/5
TO OUTPUT 4/5
TO OUTPUT 5/5

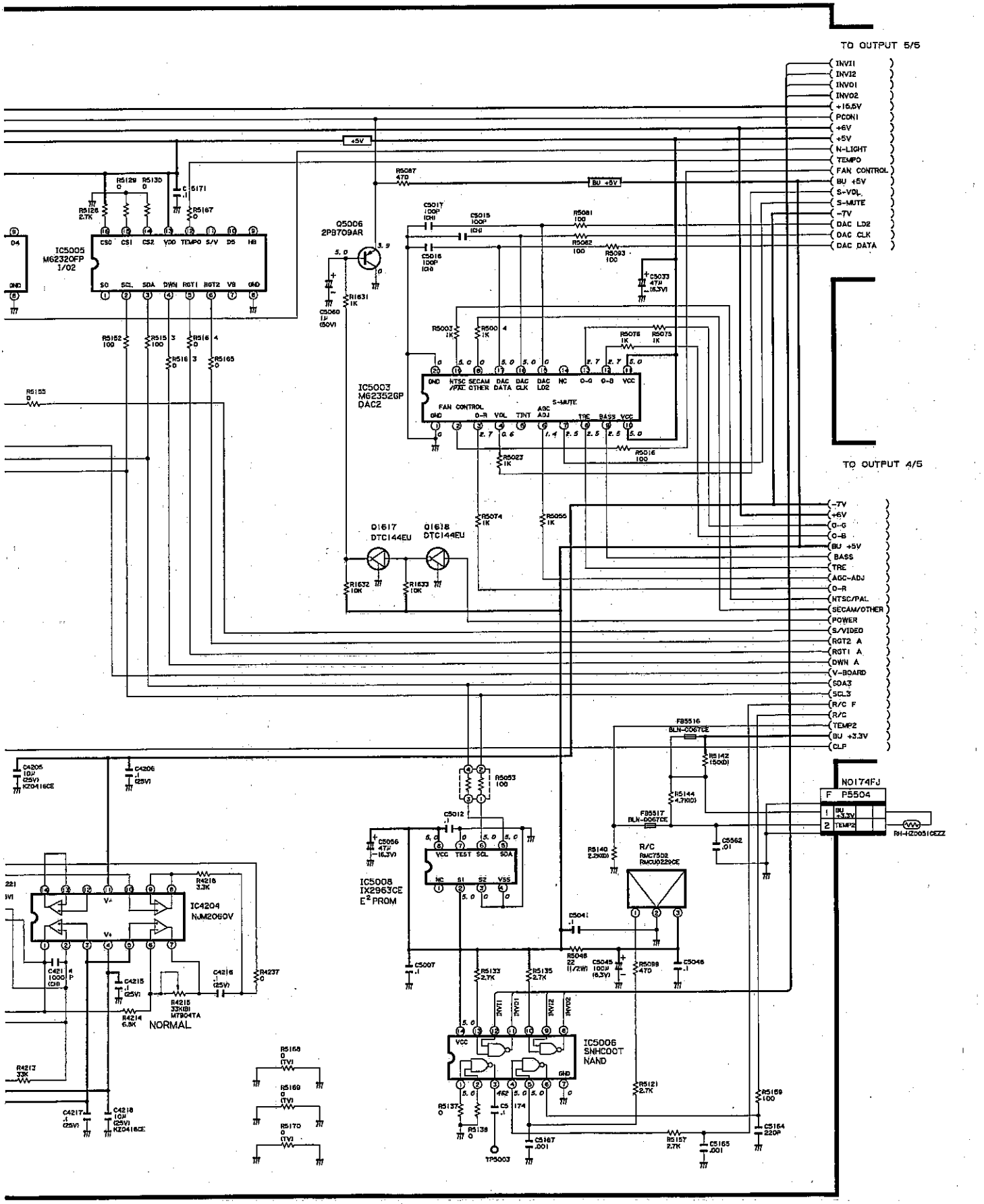
■ OUTPUT UNIT-2/5 / AUSGABEEINHEIT-2/5 输出电路装置-2/5




IC1201
CXA2112R
IC1203
AD8013AR
IC1204
NJM2902V
IC1301
CXA2112R
Q1201 2SC2411KR
Q1202 2SA1036KR
Q1203 2SC2411KR
Q1204 2SA1036KR
Q1205 2SC2411KR
Q1206 2SA1036KR
Q1207 2SC2411KR
Q1208 2SA1036KR
Q1301 2SC2411KR
Q1302 2SA1036KR
Q1303 2SC2411KR
Q1304 2SA1036KR
Q1305 2SC2411KR
Q1306 2SA1036KR
Q1307 2SC2411KR
Q1308 2SA1036KR
SC1201
SC1301
N3276TA
TO OUTPUT 3/5
TO OUTPUT 4/5
DUNTK9839DE06

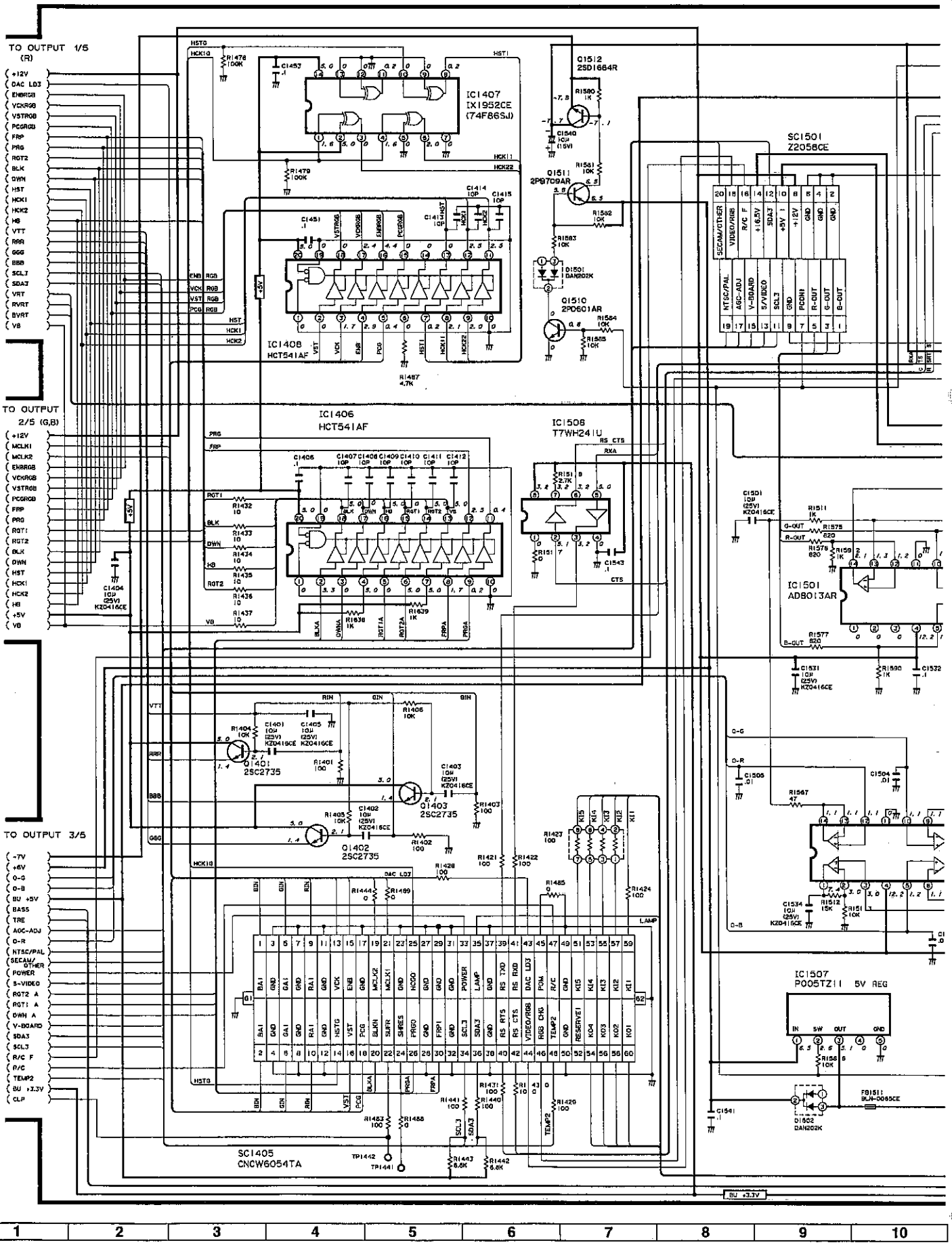
■ OUTPUT UNIT-3/5 / AUSGABEEINHEIT-3/5 输出电路装置-3/5

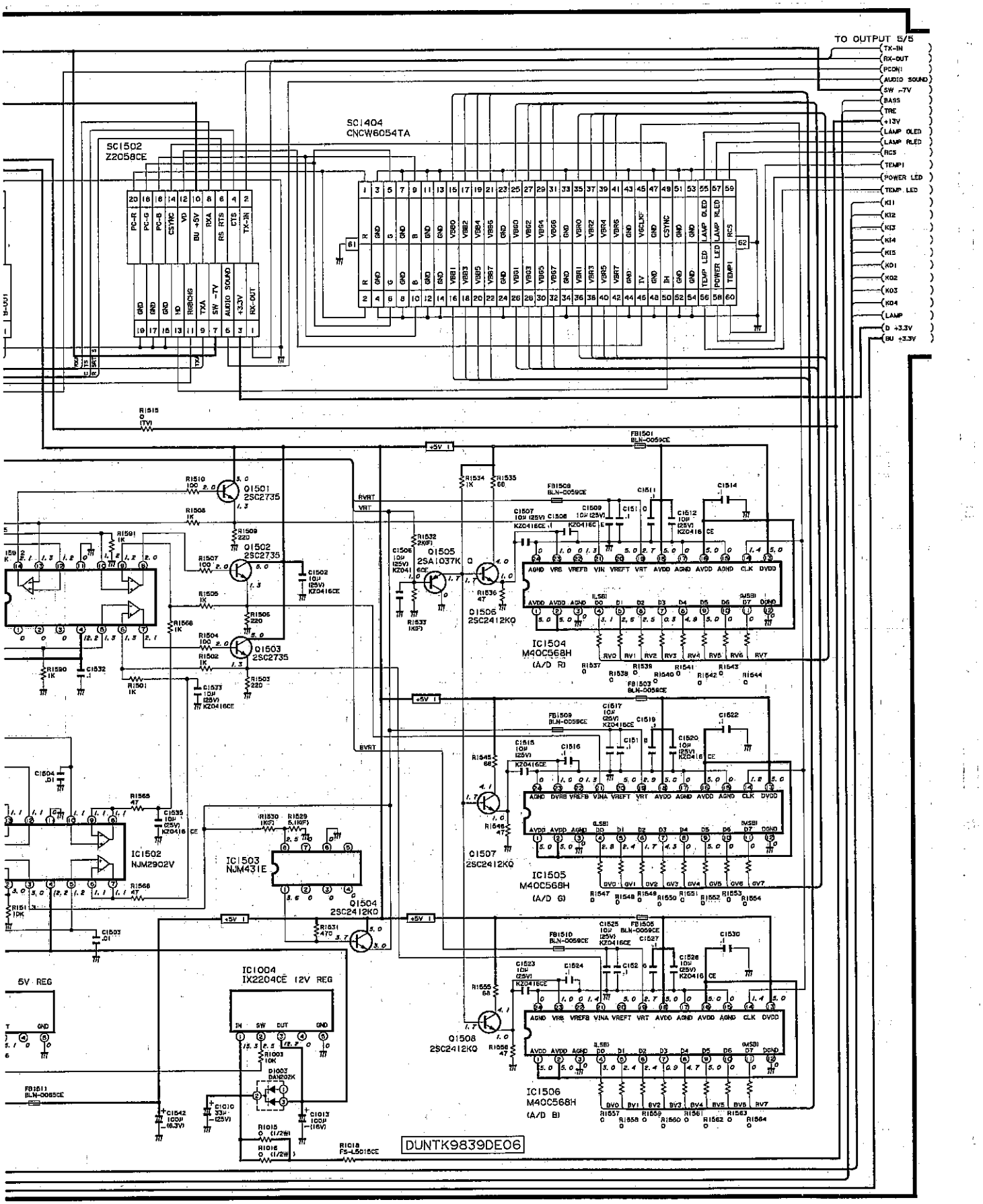




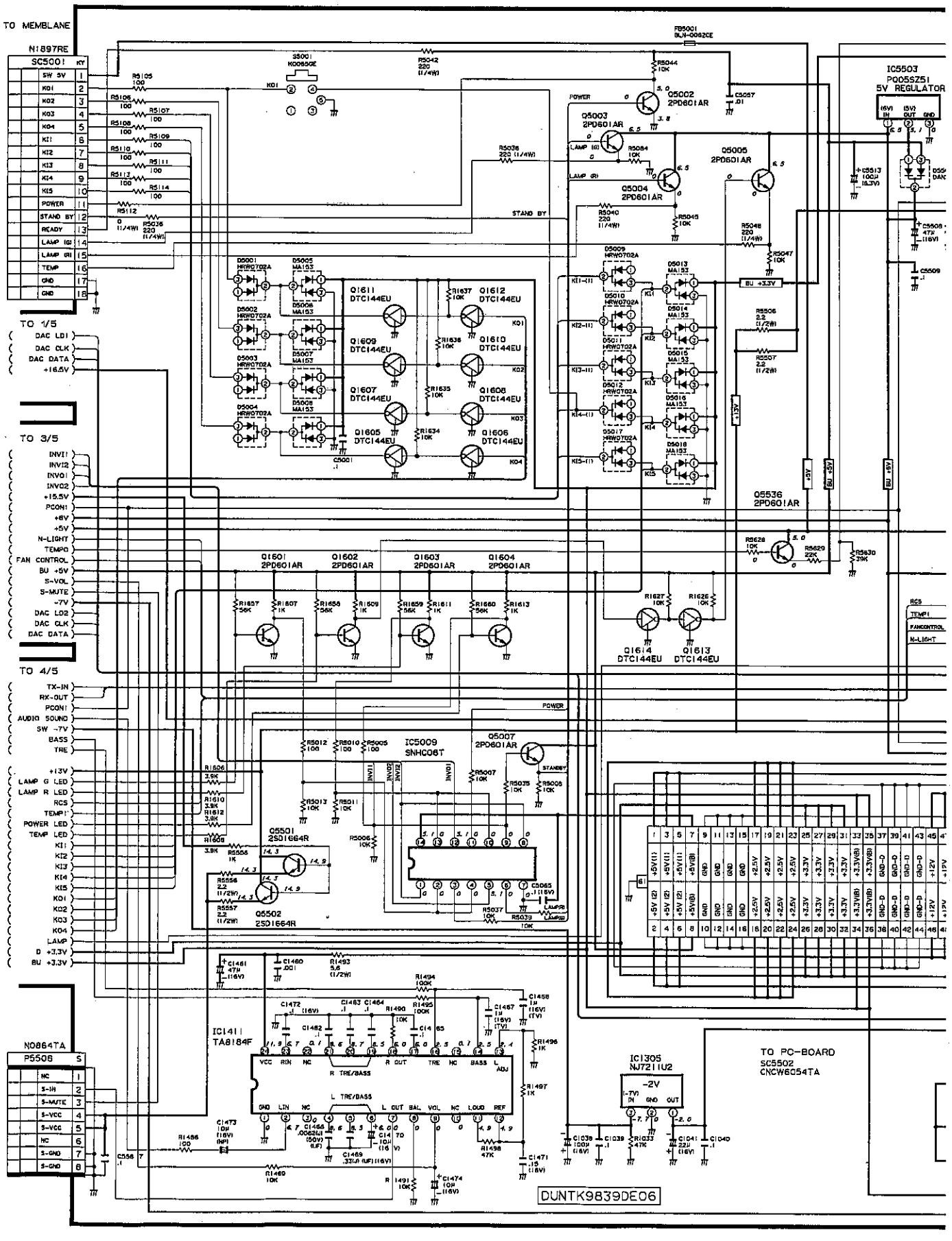
10	11	12	13	14	15	16	17	18	19

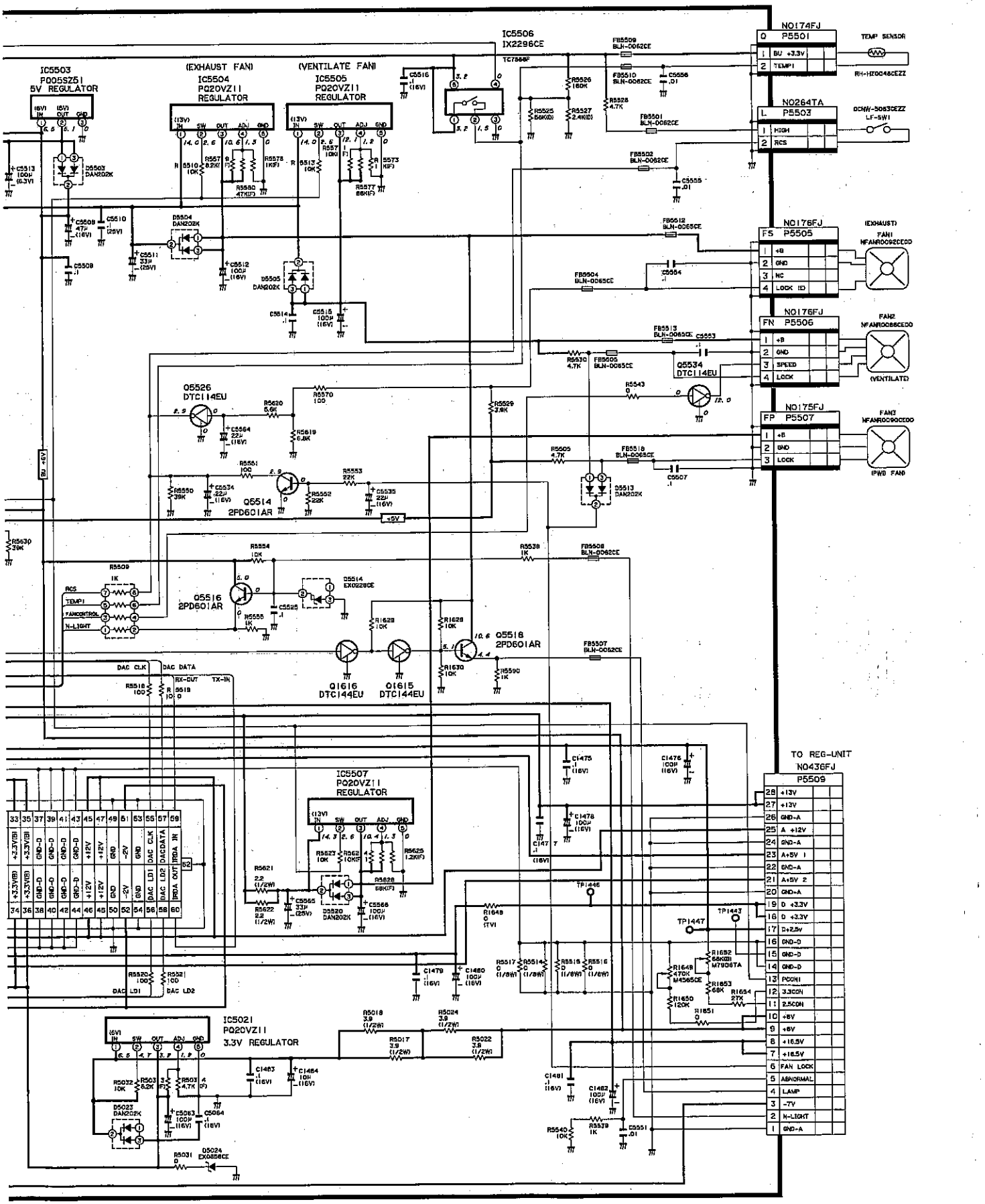
■ OUTPUT UNIT-4/5 / AUSGABEEINHEIT-4/5 输出电路装置-4/5



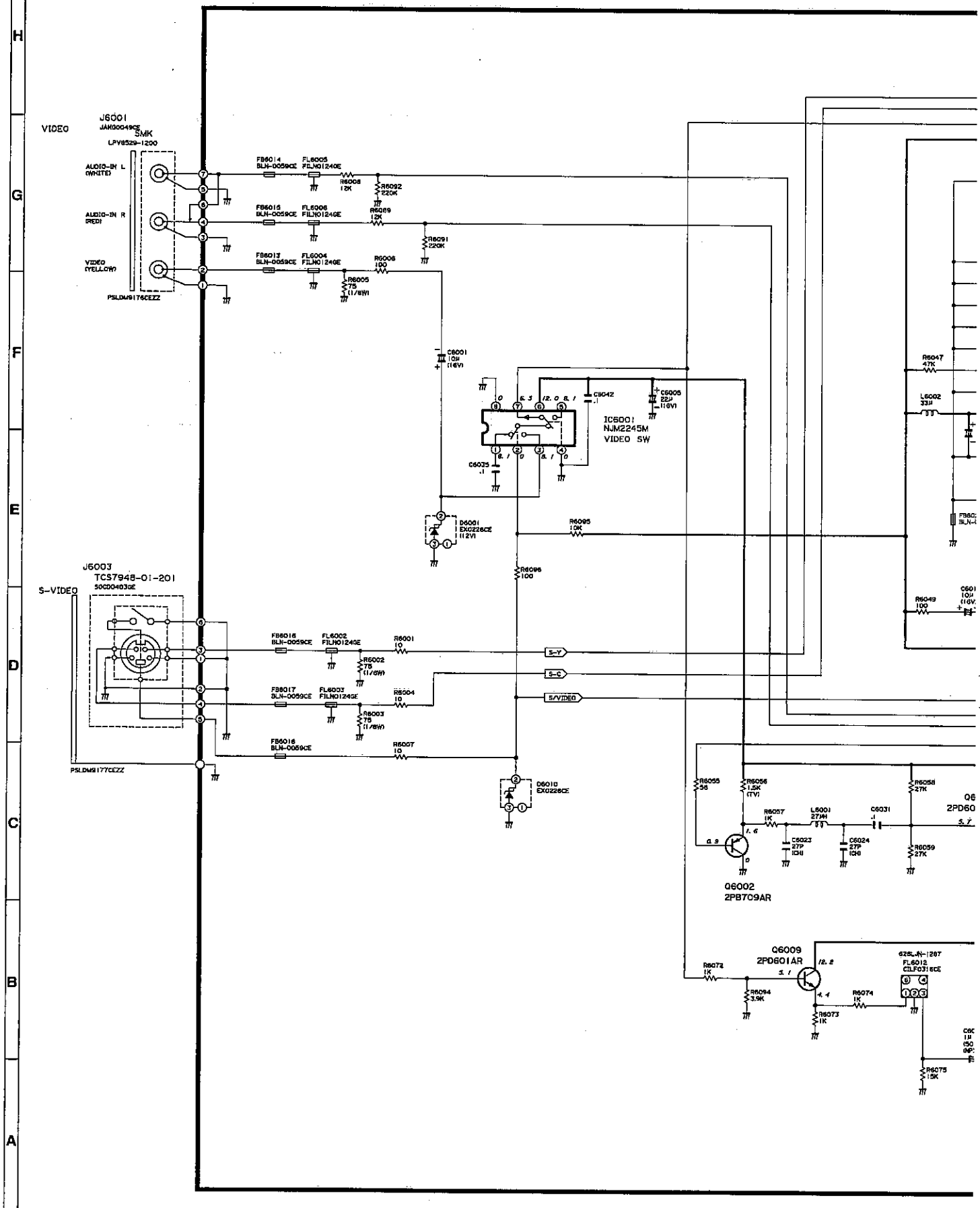

TO OUTPUT 5/5
TX-IN
RX-OUT
PCON1
AUDIO SOUND
SW -7V
BASS
TRE
+13V
LAMP OLED
LAMP RLED
RCS
TEMP1
POWER LED
TEMP LED
KI1
KI2
KI3
KI4
KI5
KO1
KO2
KO3
KO4
LAMP
D +3.3V
BU +3.3V
SC1502
Z2058CE
SC1404
CNCW6054TA
Q1501
2SC2735
Q1502
2SC2735
Q1503
2SC2735
Q1505
2SA1037K
Q1506
2SC2412KQ
Q1507
2SC2412KQ
Q1508
2SC2412KQ
Q1504
2SC2412KQ
IC1504
M40C568H
(A/D R)
IC1505
M40C568H
(A/D G)
IC1506
M40C568H
(A/D B)
IC1502
NJM2902V
IC1503
NJM431E
IC1004
IX2204CE 12V REG
5V REG
DUNTK9839DE06

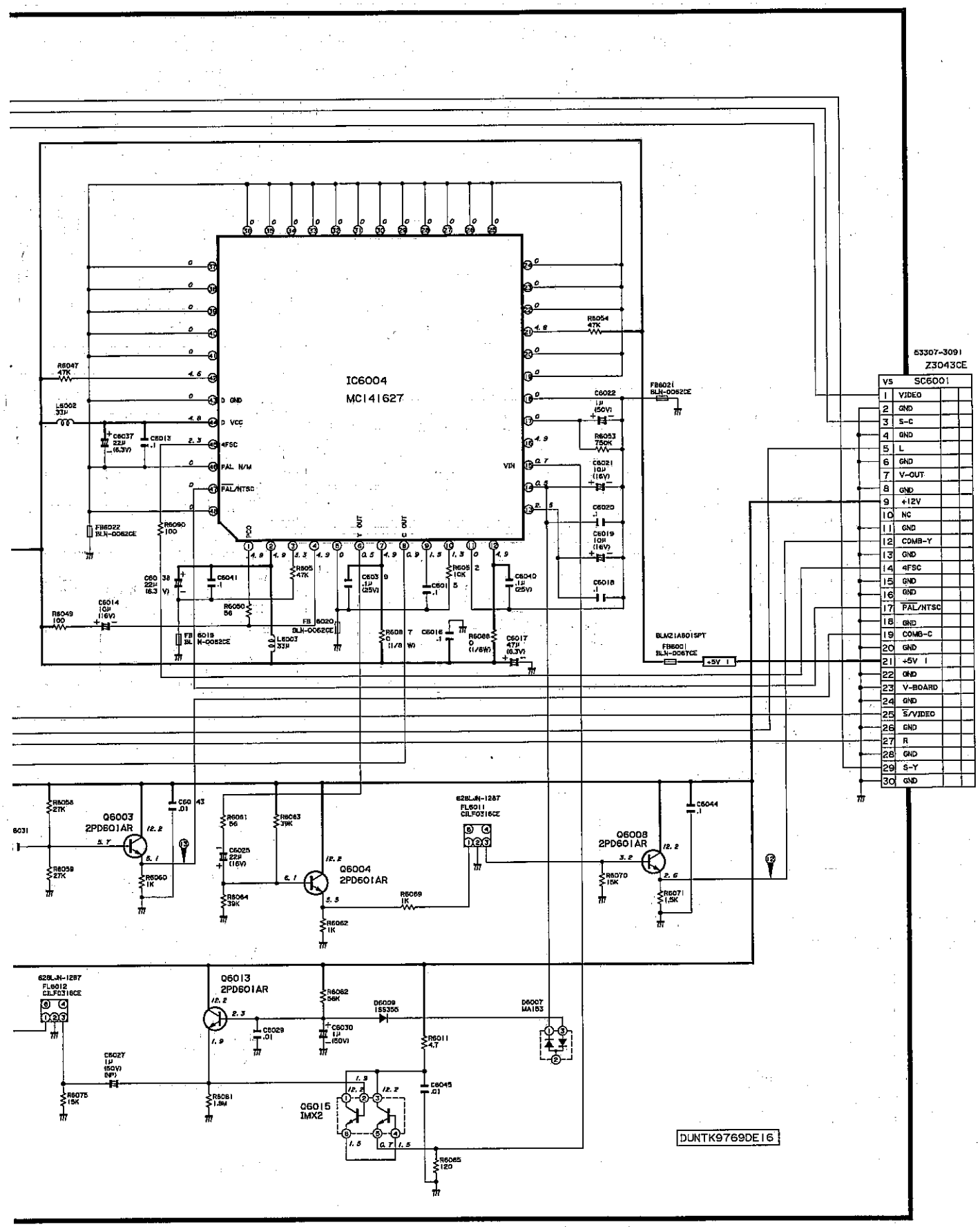
■ OUTPUT UNIT-5/5 / AUSGABEEINHEIT-5/5 输出电路装置-5/5




IC5503
P005SZ51
5V REGULATOR
(EXHAUST FAN)
IC5504
PQ20VZ11
REGULATOR
(VENTILATE FAN)
IC5505
PQ20VZ11
REGULATOR
IC5506
IX2296CE
TC7S66F
NO174FJ
Q P5501
1 BU +3.3V
2 TEMP1
TEMP SENSOR
RH-HZ0046CEZZ
NO264TA
L P5503
1 HIGH
2 RCS
DCNW-S063CEZZ
LF-SW1
NO176FJ
FS P5505
1 +B
2 GND
3 NC
4 LOCK ID
(EXHAUST) FAN1
NFANR0092CE00
NO176FJ
FN P5506
1 +B
2 GND
3 SPEED
4 LOCK
FAN2
NFANR0086CE00
(VENTILATE)
NO175FJ
FP P5507
1 +B
2 GND
3 LOCK
FAN3
NFANR0090CE00
(PWB FAN)
Q5526
DTC114EU
Q5534
DTC114EU
Q5514
2PD601AR
Q5516
2PD601AR
Q5518
2PD601AR
Q1616
DTC144EU
Q1615
DTC144EU
IC5507
PQ20VZ11
REGULATOR
IC5021
PQ20VZ11
3.3V REGULATOR
TO REG-UNIT
NO436FJ
P5509
28 +13V
27 +13V
26 GND-A
25 A +12V
24 GND-A
23 A+5V 1
22 GND-A
21 A+5V 2
20 GND-A
19 D +3.3V
18 D +3.3V
17 D+2.5V
16 GND-D
15 GND-D
14 GND-D
13 PCONI
12 3.3CON
11 2.5CON
10 +8V
9 +8V
8 +16.5V
7 +16.5V
6 FAN LOCK
5 ABNORMAL
4 LAMP
3 -7V
2 H-LIGHT
1 GND-A
RCS
TEMP1
FANCONTROL
H-LIGHT
DAC CLK
DAC DATA
RX-OUT
TX-IR
DAC LD1
DAC LD2
+5V
TP1446
TP1447
TP1443

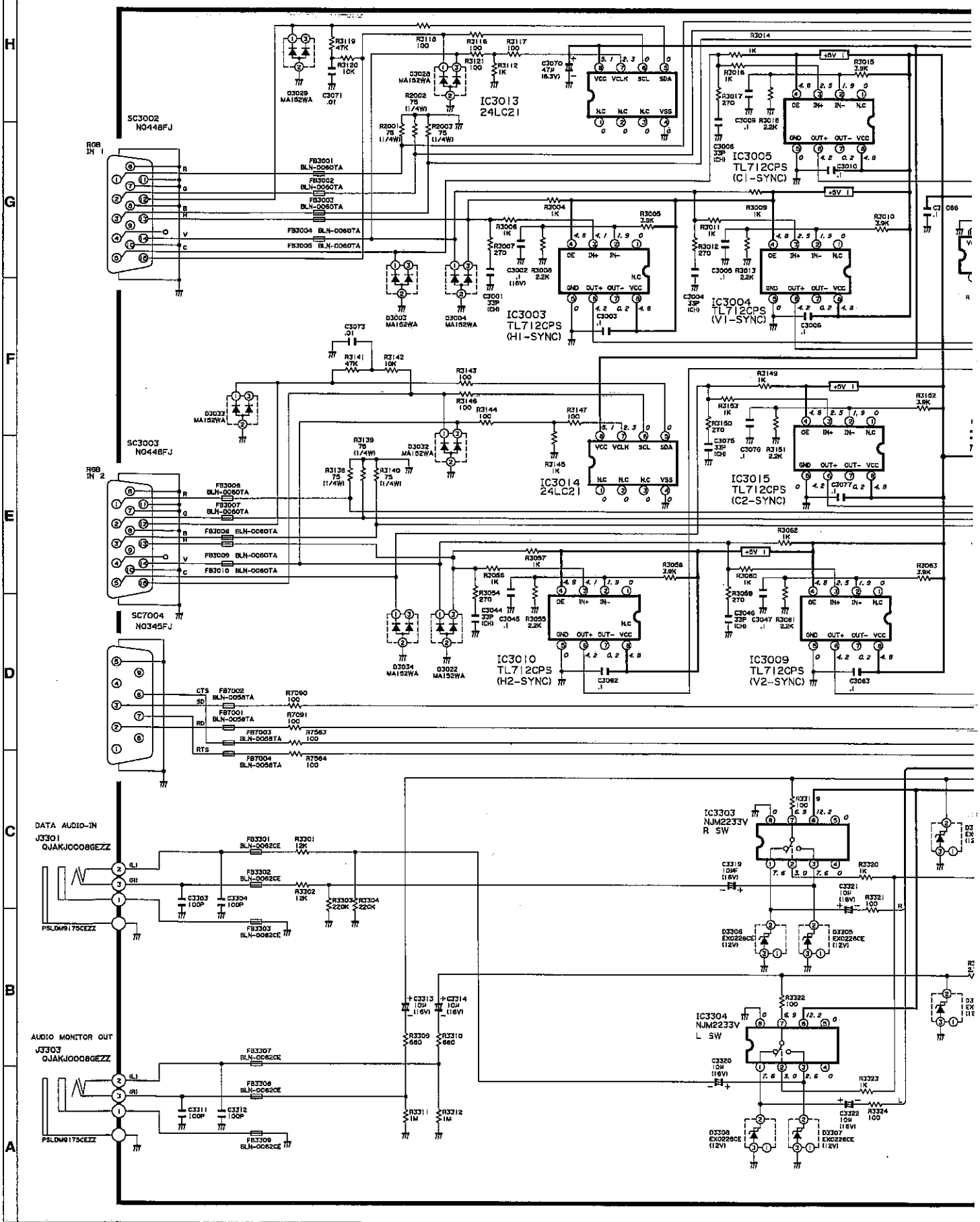
■ VIDEO UNIT / VIDEOEINHEIT 视频电路装置

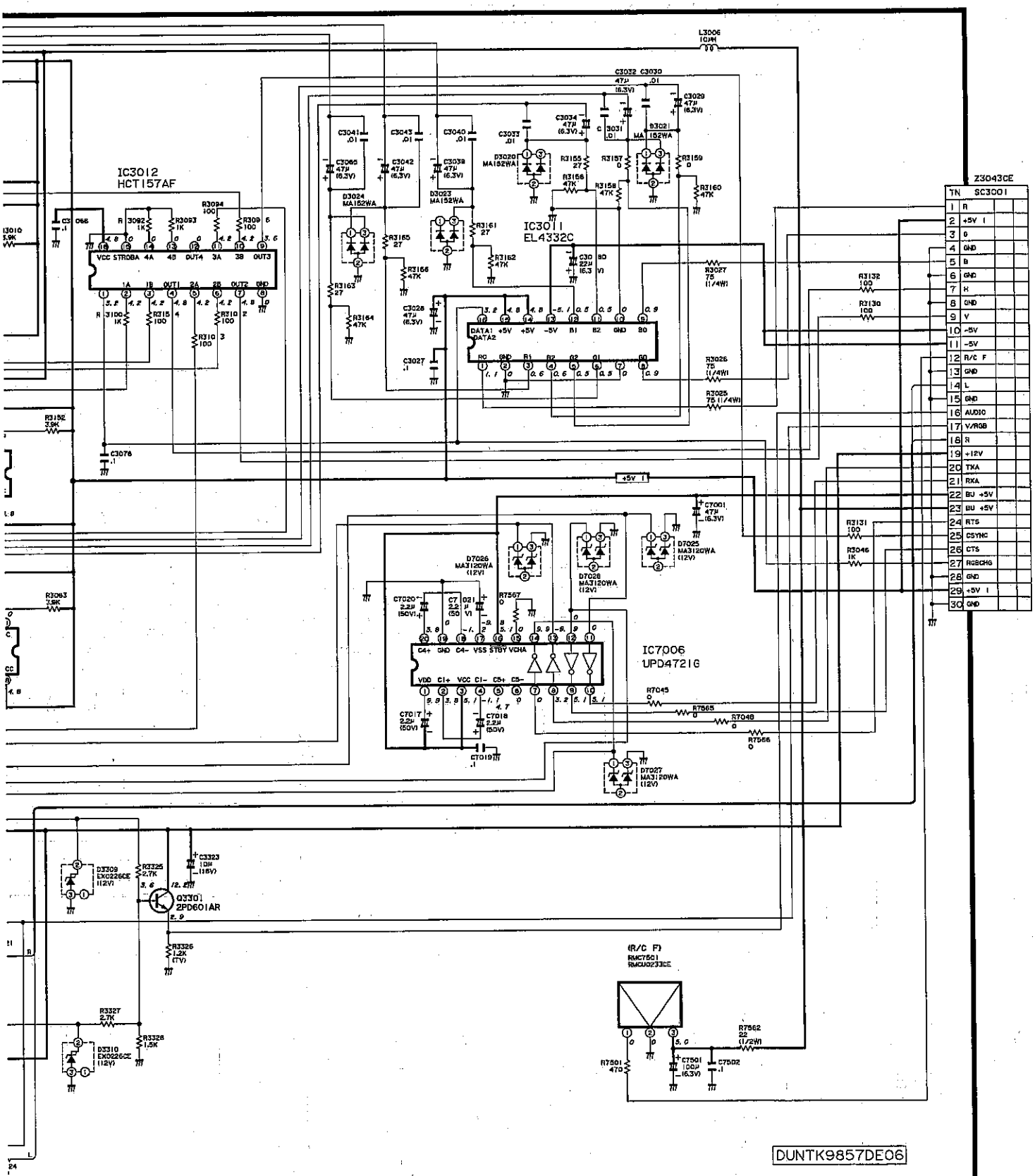




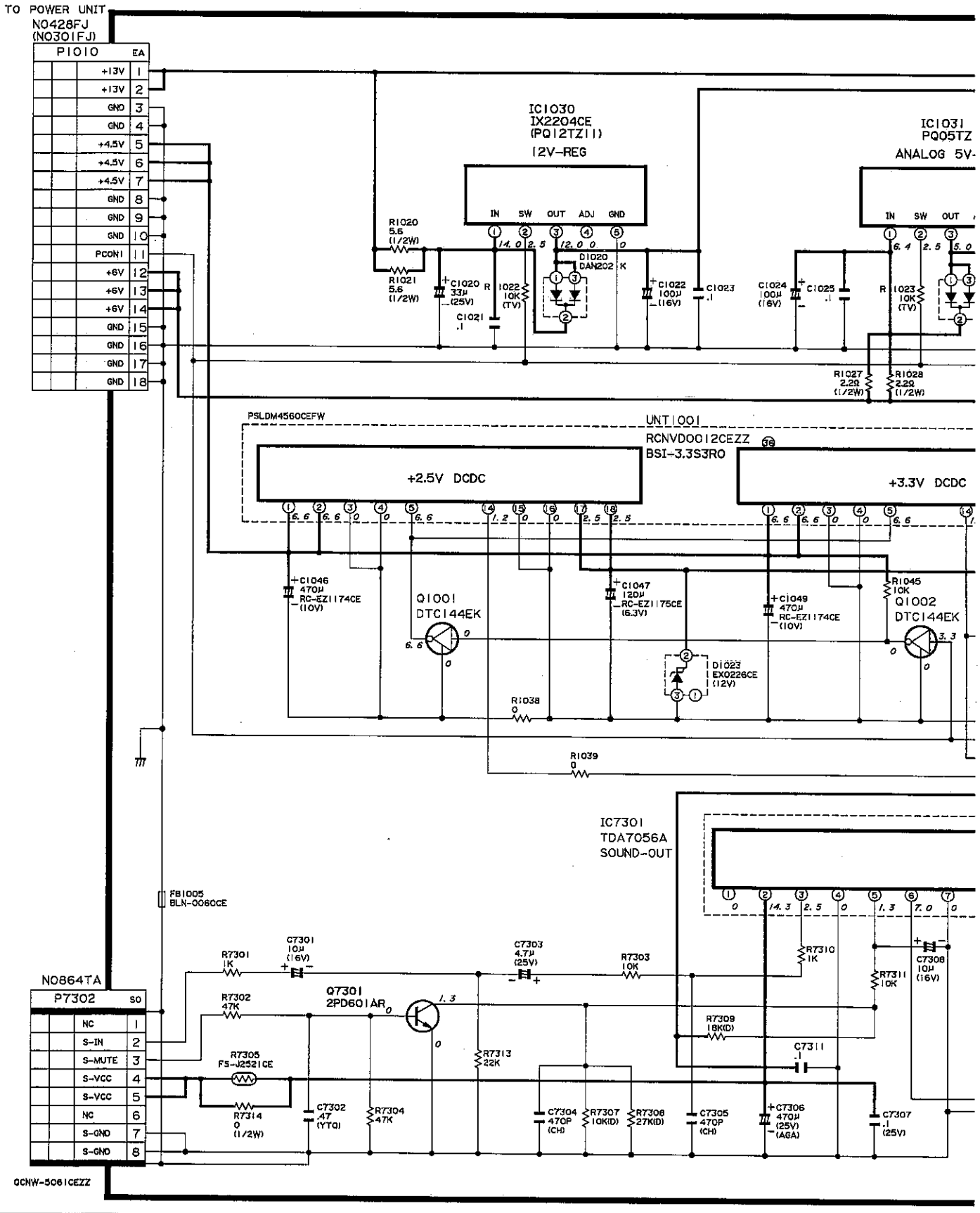
10	11	12	13	14	15	16	17	18	19

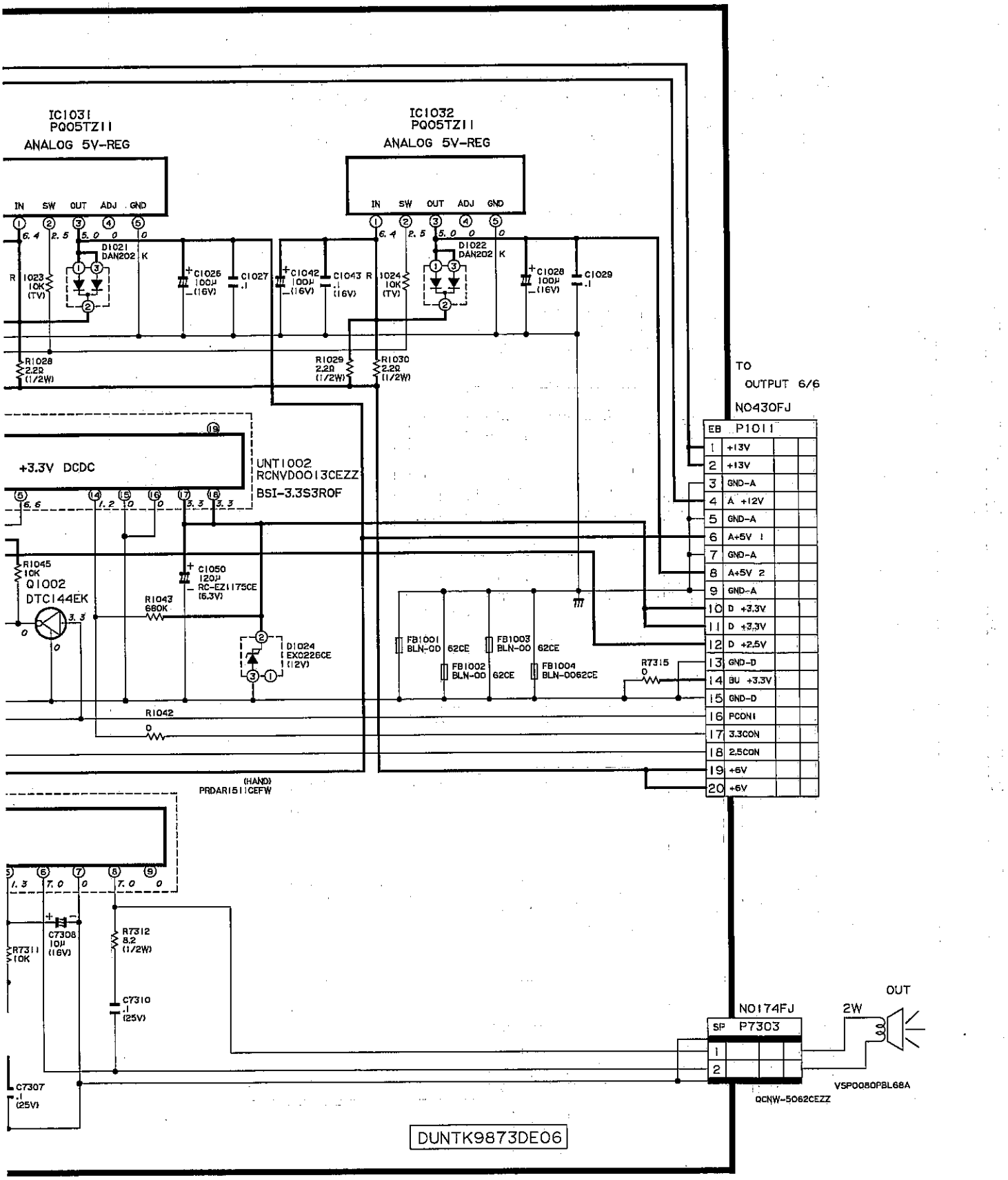
■ PC TERMINAL UNIT / PC-ANSCHLUßEINHEIT PC插接电路装置




IC3012
HCT157AF
IC3011
EL4332C
IC7006
UPD4721G
Z3043CE
SC3001
Q3301
2PD601AR
(R/C F)
DUNTK9857DE06

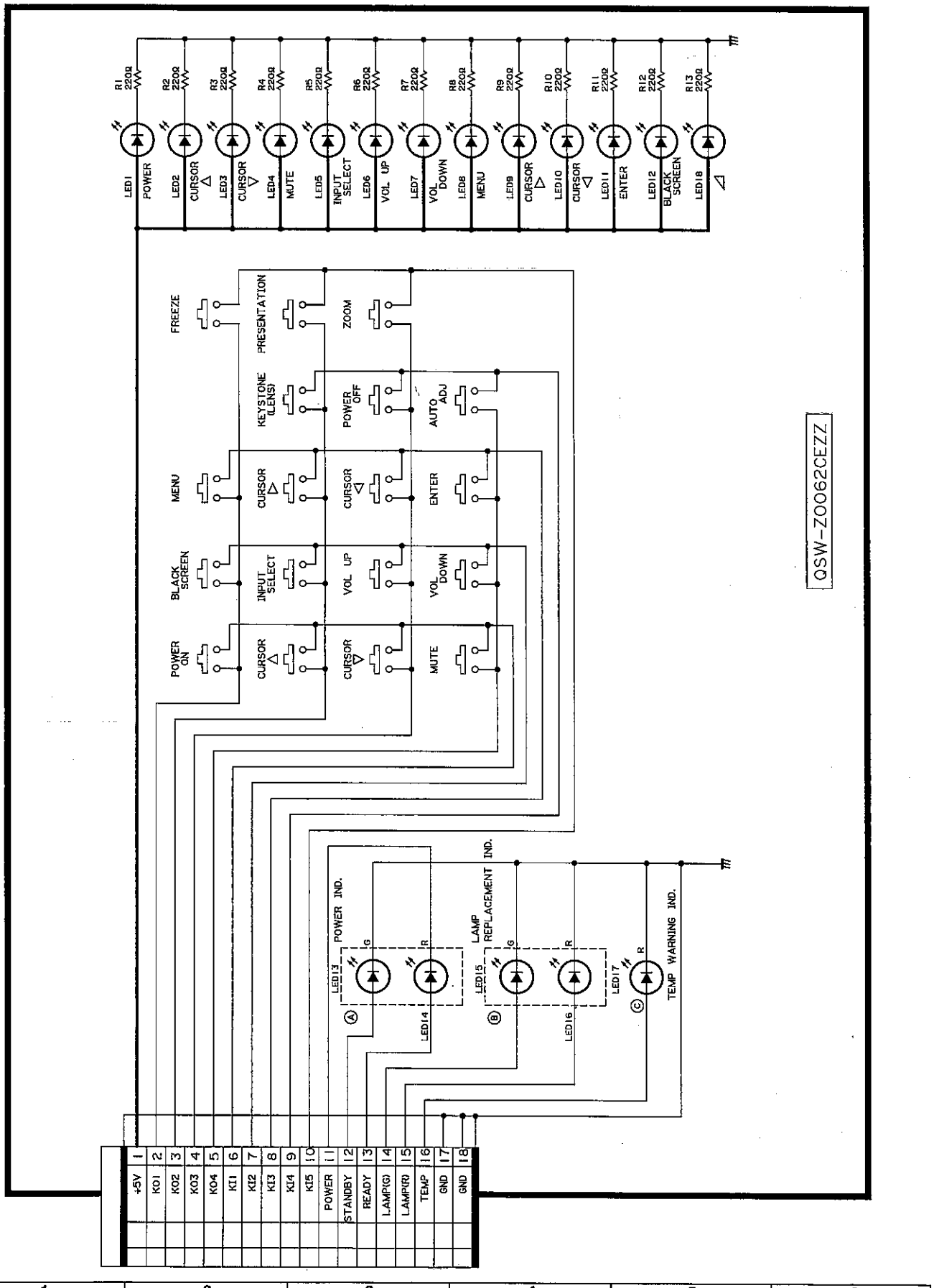
■ SOUND OUT and REGURATOR UNIT / TONAUSGABE- und REGLEREINHEIT
音频信号输出装置与调整电路装置



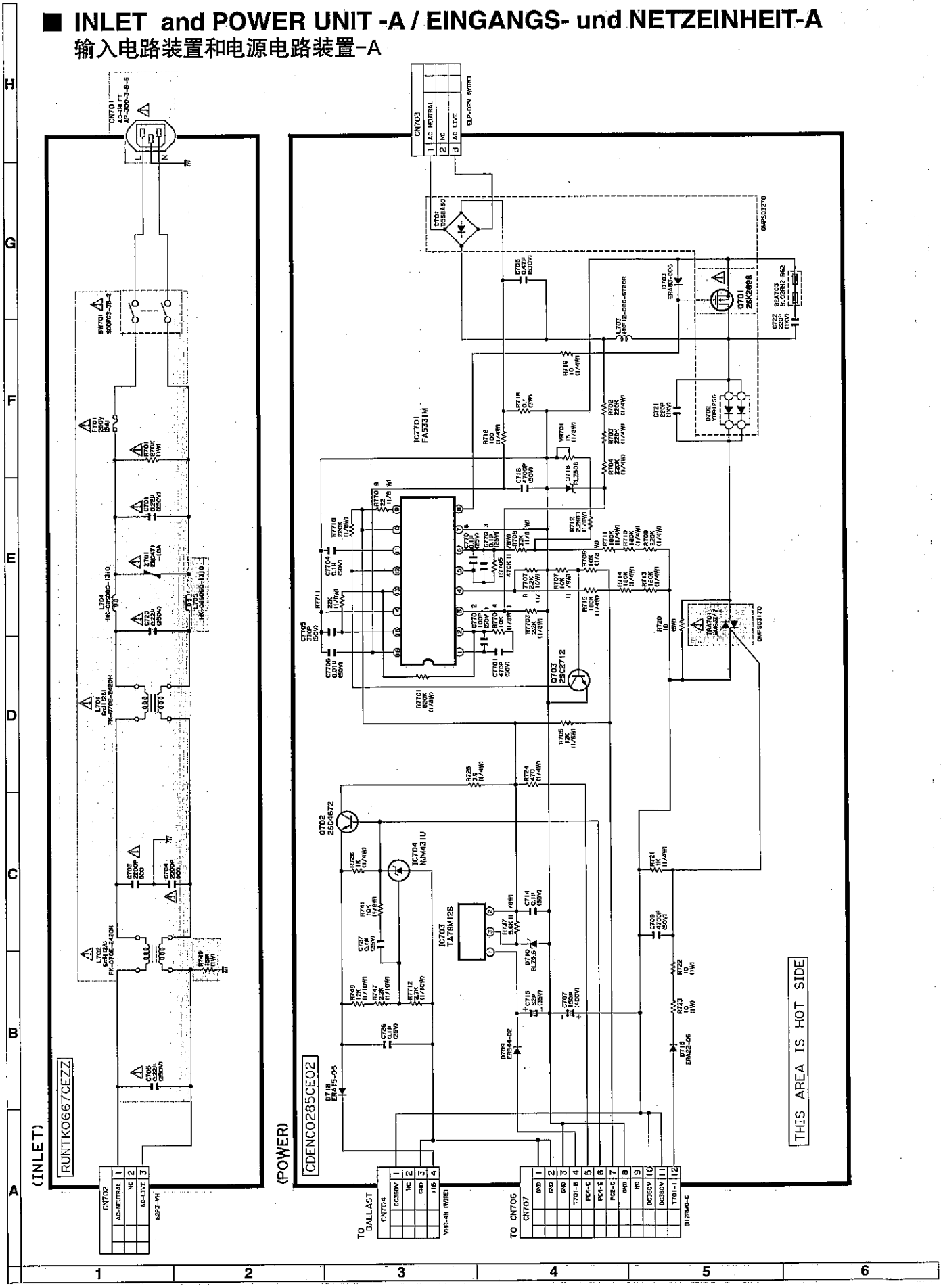


10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19

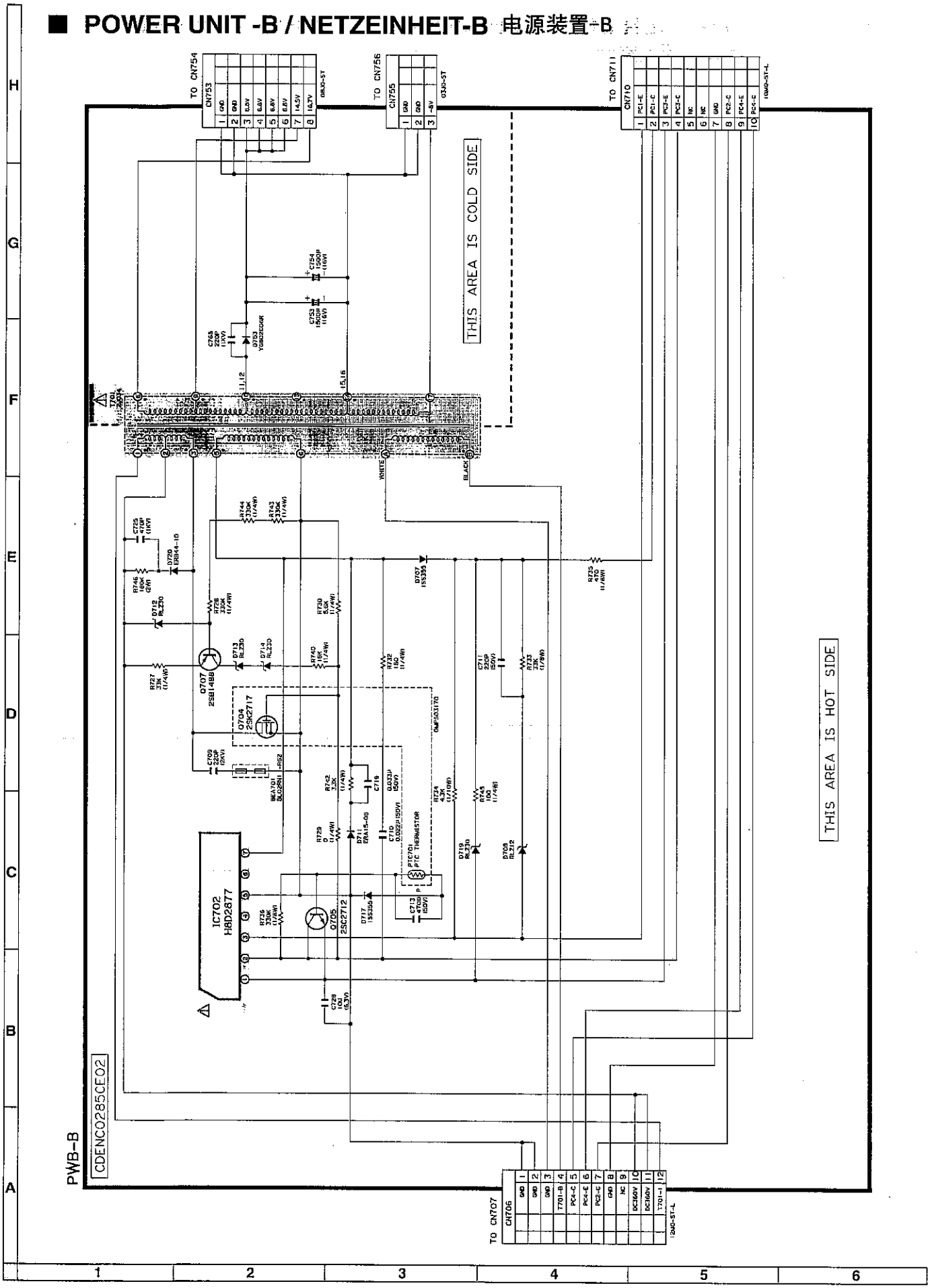
■ OPERATION KEY UNIT / BEDIENUNGSTASTENEINHEIT 操作鍵装置



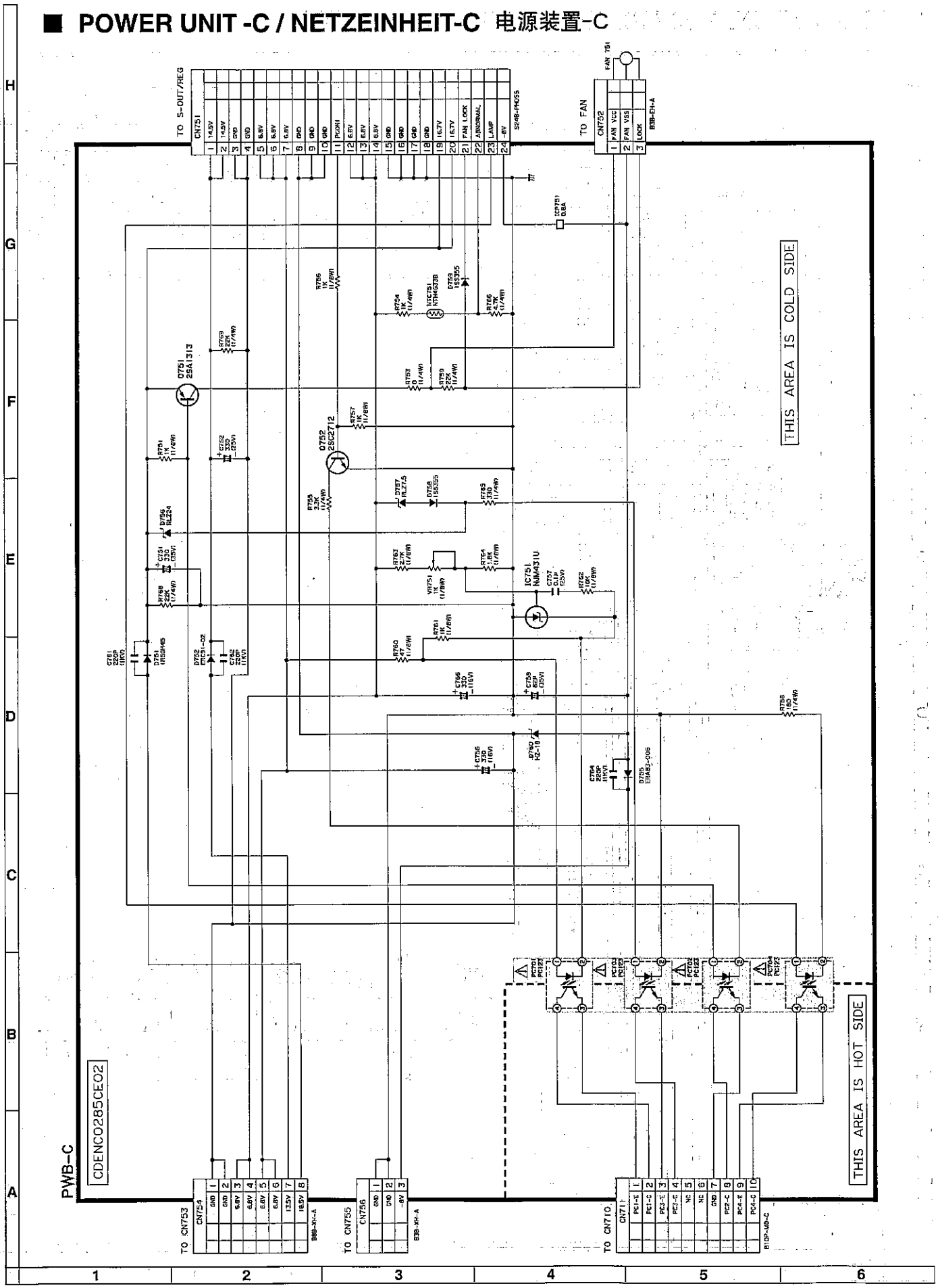
■ INLET and POWER UNIT -A / EINGANGS- und NETZEINHEIT-A
输入电路装置和电源电路装置-A



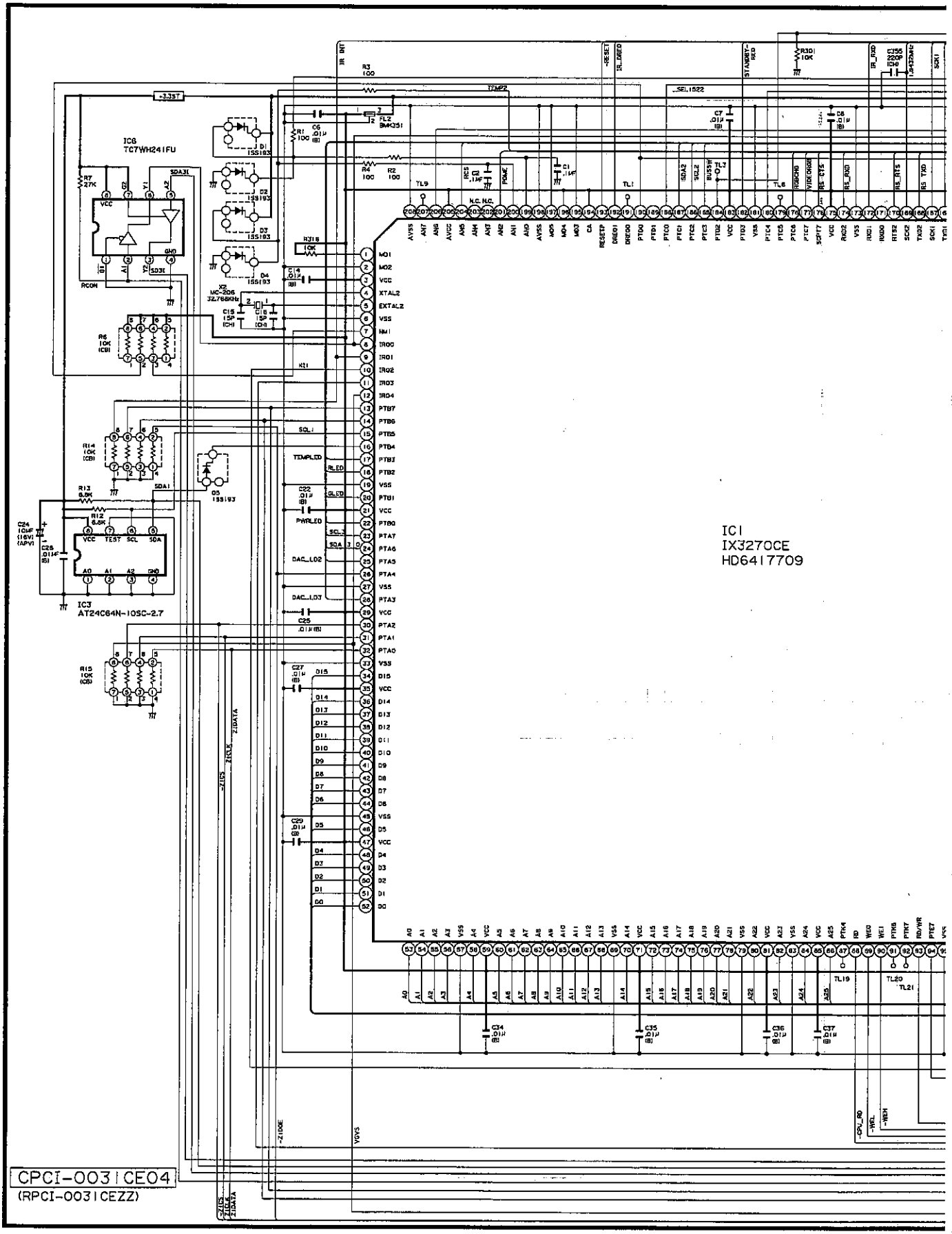
■ POWER UNIT -B / NETZEINHEIT-B 电源装置-B

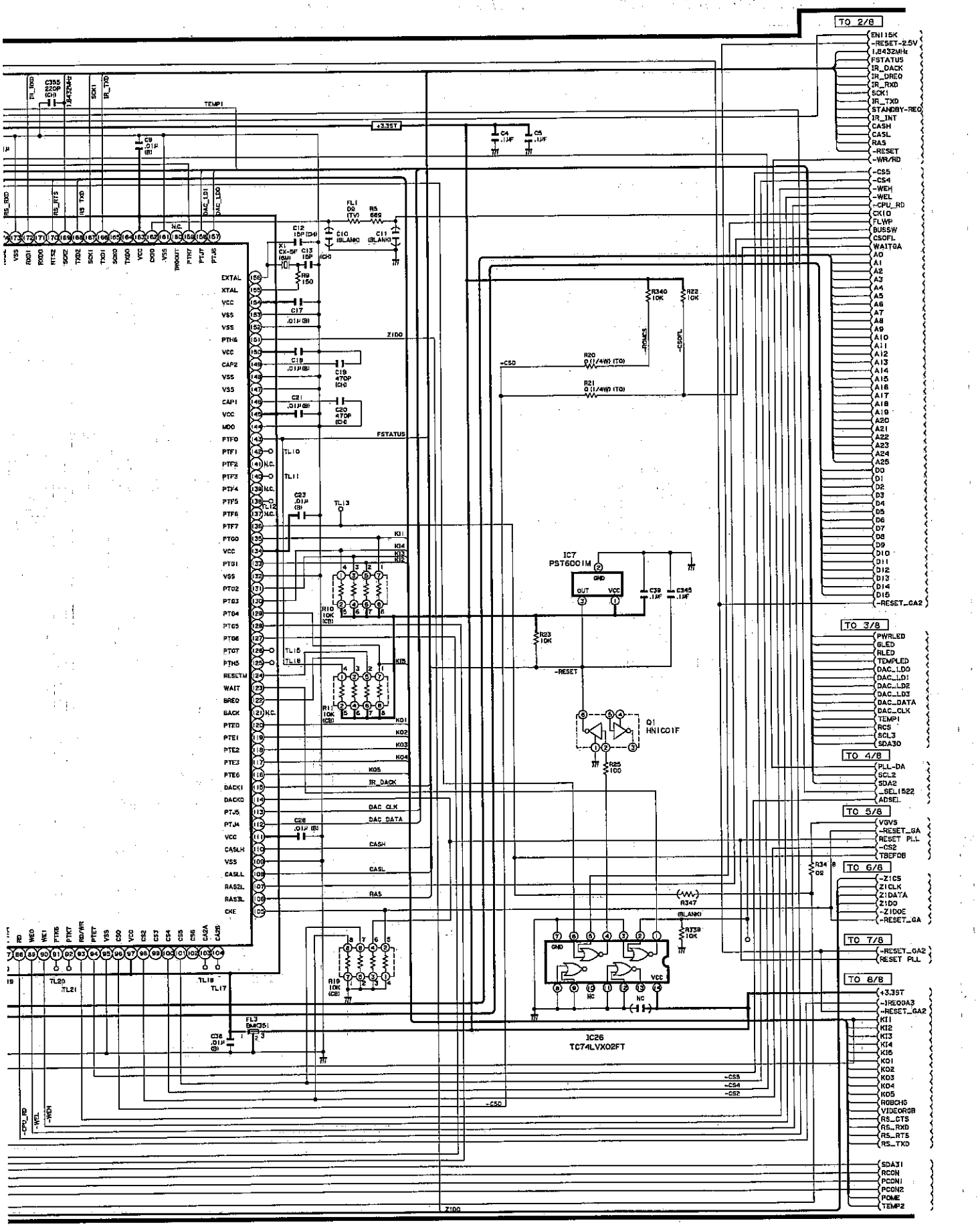


■ POWER UNIT -C / NETZEINHEIT-C 电源装置-C

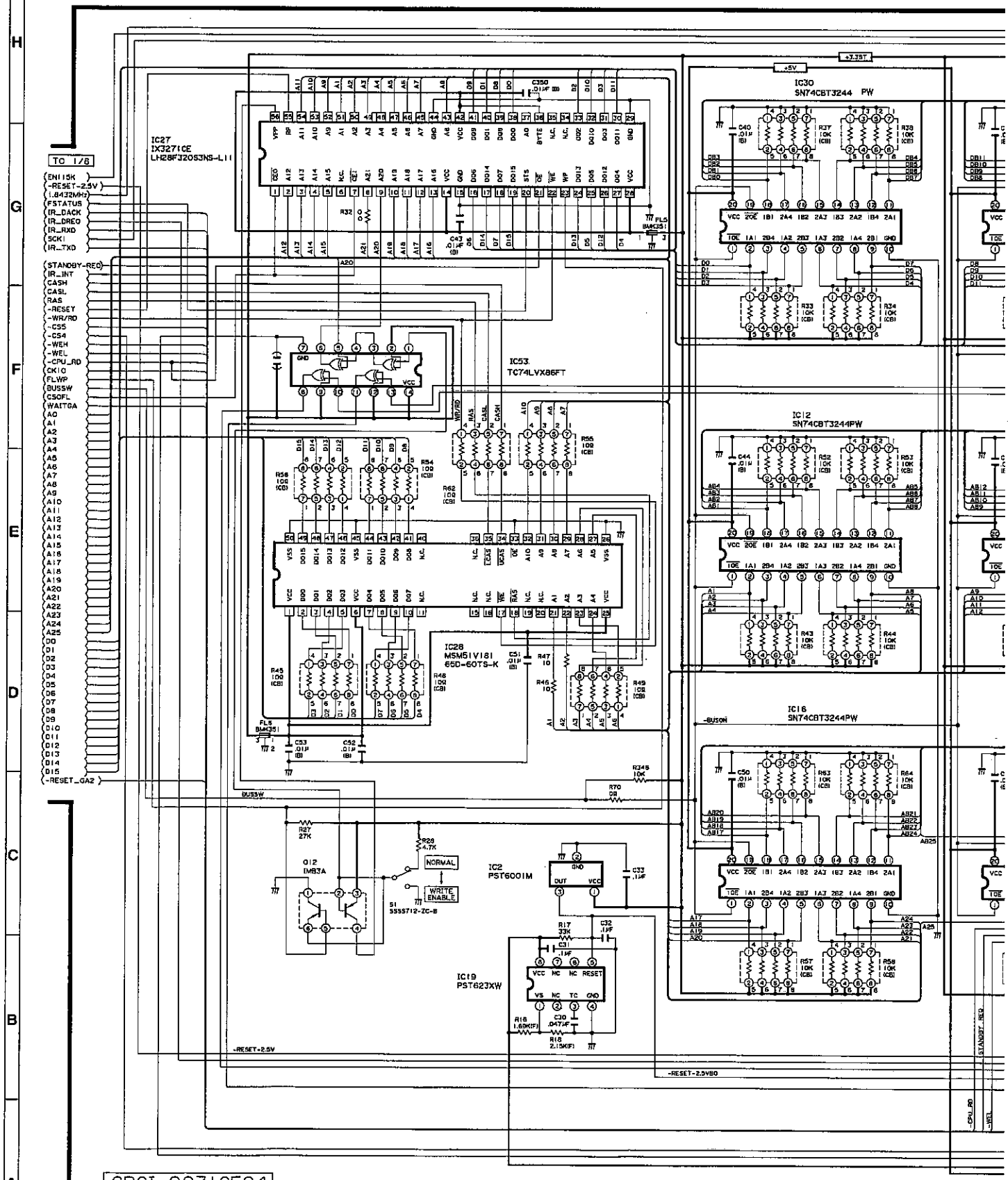


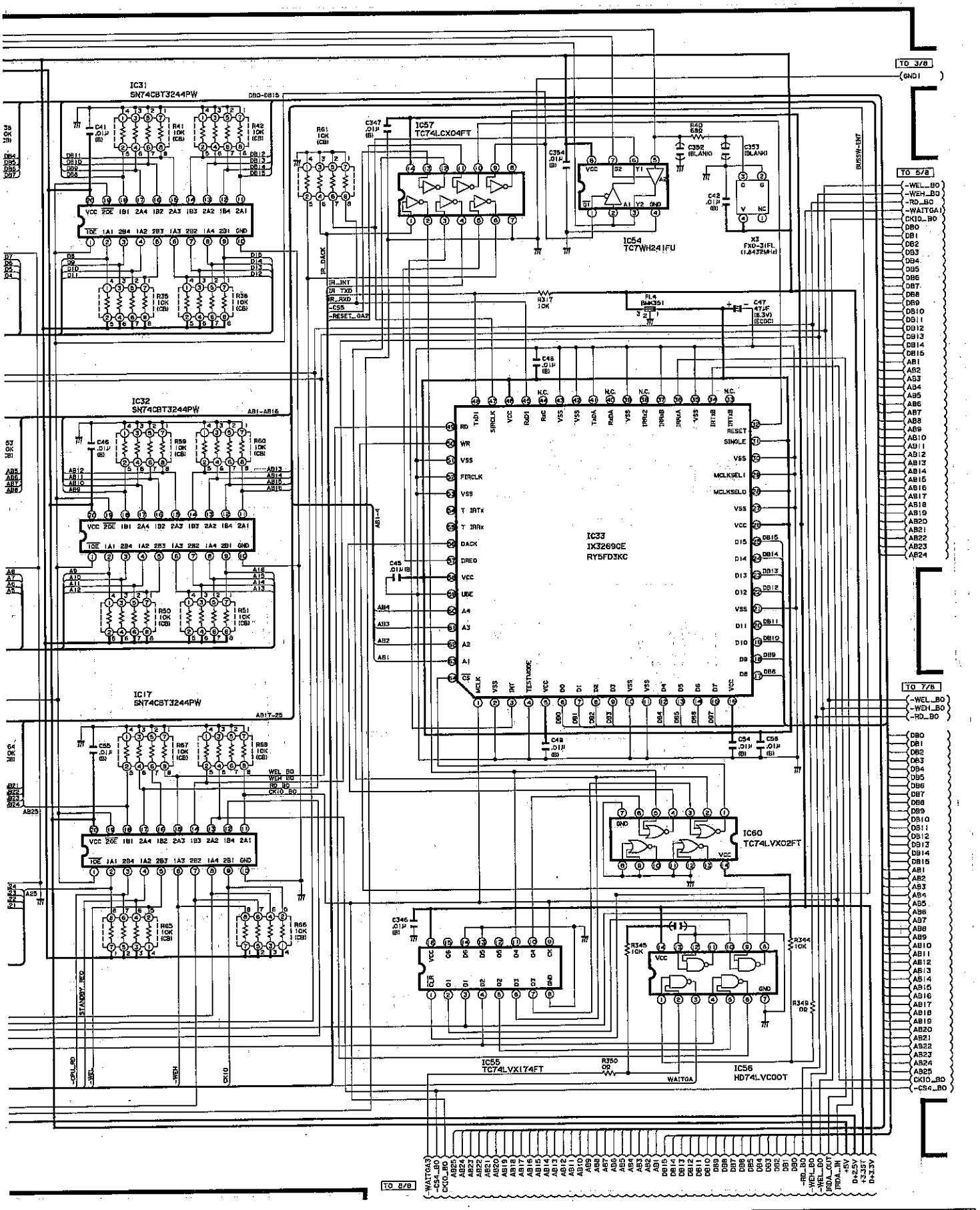
■ PC I/F UNIT-1/8 / PC-I/F-EINHEIT-1/8 / PC I/F装置-1/8



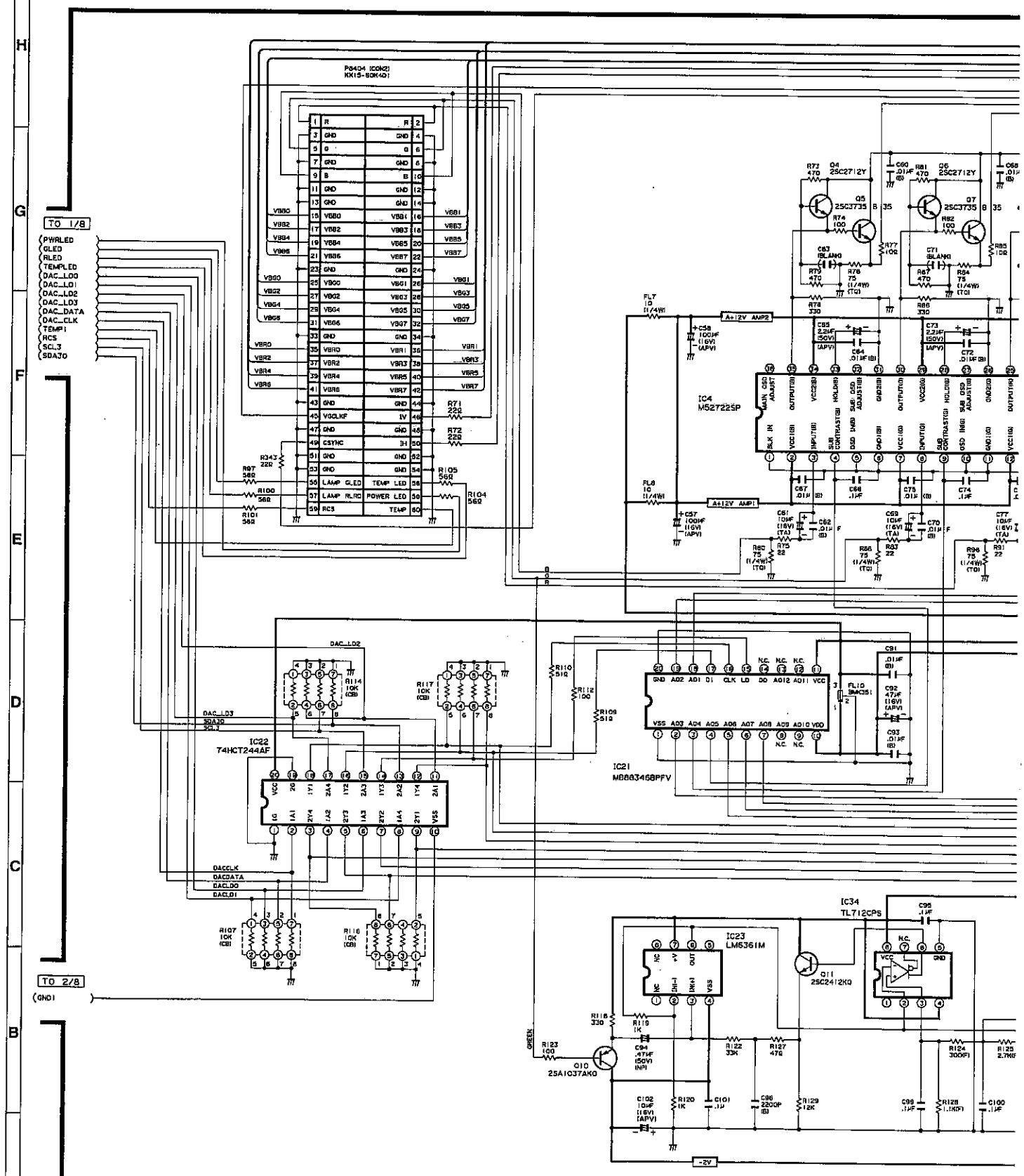

TO 2/8
TO 3/8
TO 4/8
TO 5/8
TO 6/8
TO 7/8
TO 8/8
IC7
PST6001M
IC26
TC74LVX02FT
Q1
HN1C01F
+3.3ST
TEMP1
FSTATUS
IR_DACK
DAC_CLK
DAC_DATA
CASH
CASL
RAS
-RESET
-CS5
-CS4
-CS2
-CS0
-WEH
-WEL
-CPU_RD
Z1DO
-RESET_GA2

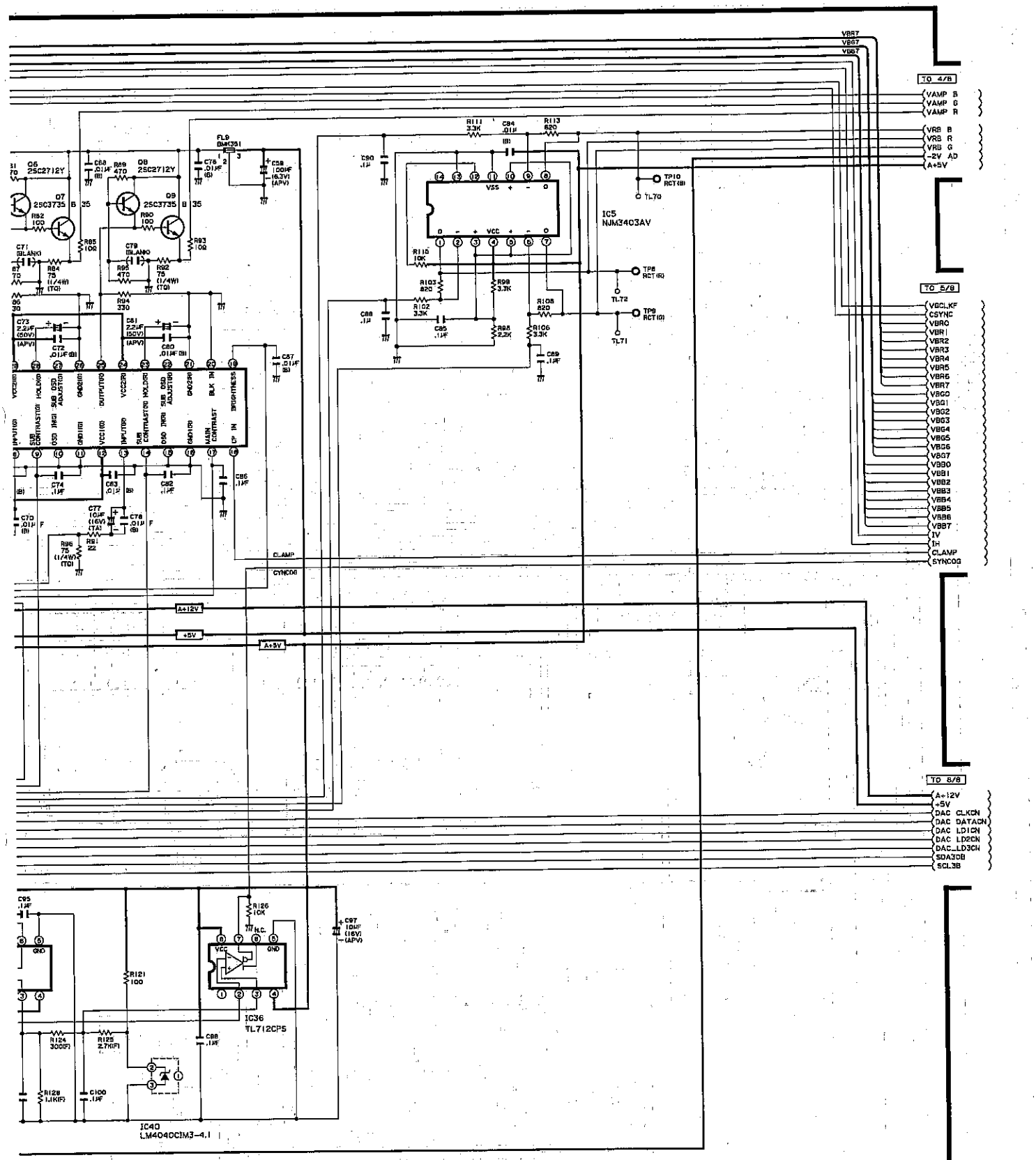
■ PC I/F UNIT-2/8 / PC-I/F-EINHEIT-2/8 PC I/F装置-2/8




IC31
SN74CBT3244PW
IC32
SN74CBT3244PW
IC17
SN74CBT3244PW
IC57
TC74LCX04FT
IC54
TC7WH241FU
IC33
IX3269CE
RY5FD3KC
IC60
TC74LVX02FT
IC55
TC74LVX174FT
IC56
HD74LVC00T
TO 3/8
TO 5/8
TO 7/8
TO 8/8

■ PC I/F UNIT-3/8 / PC-I/F-EINHEIT-3/8 PC I/F装置-3/8

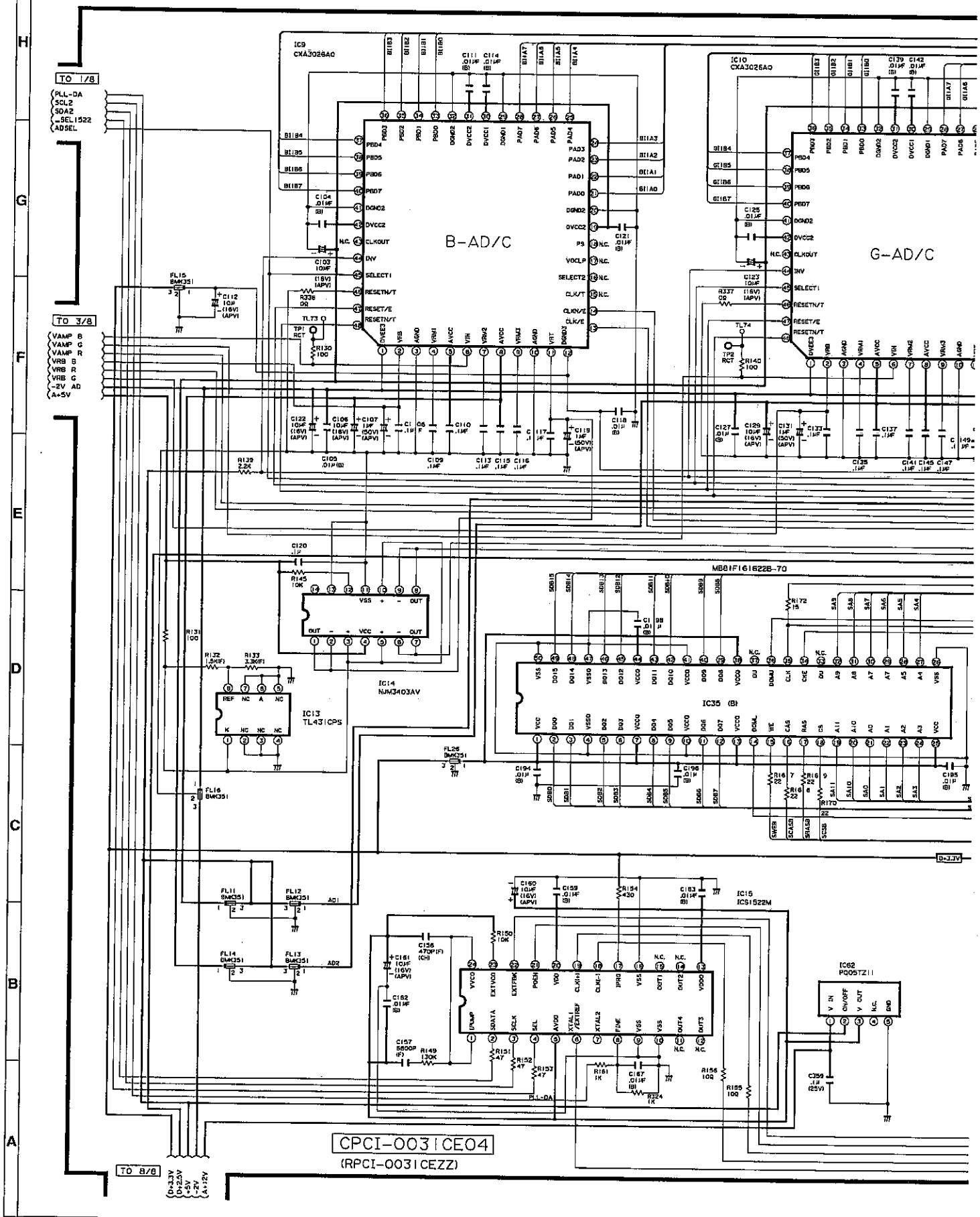


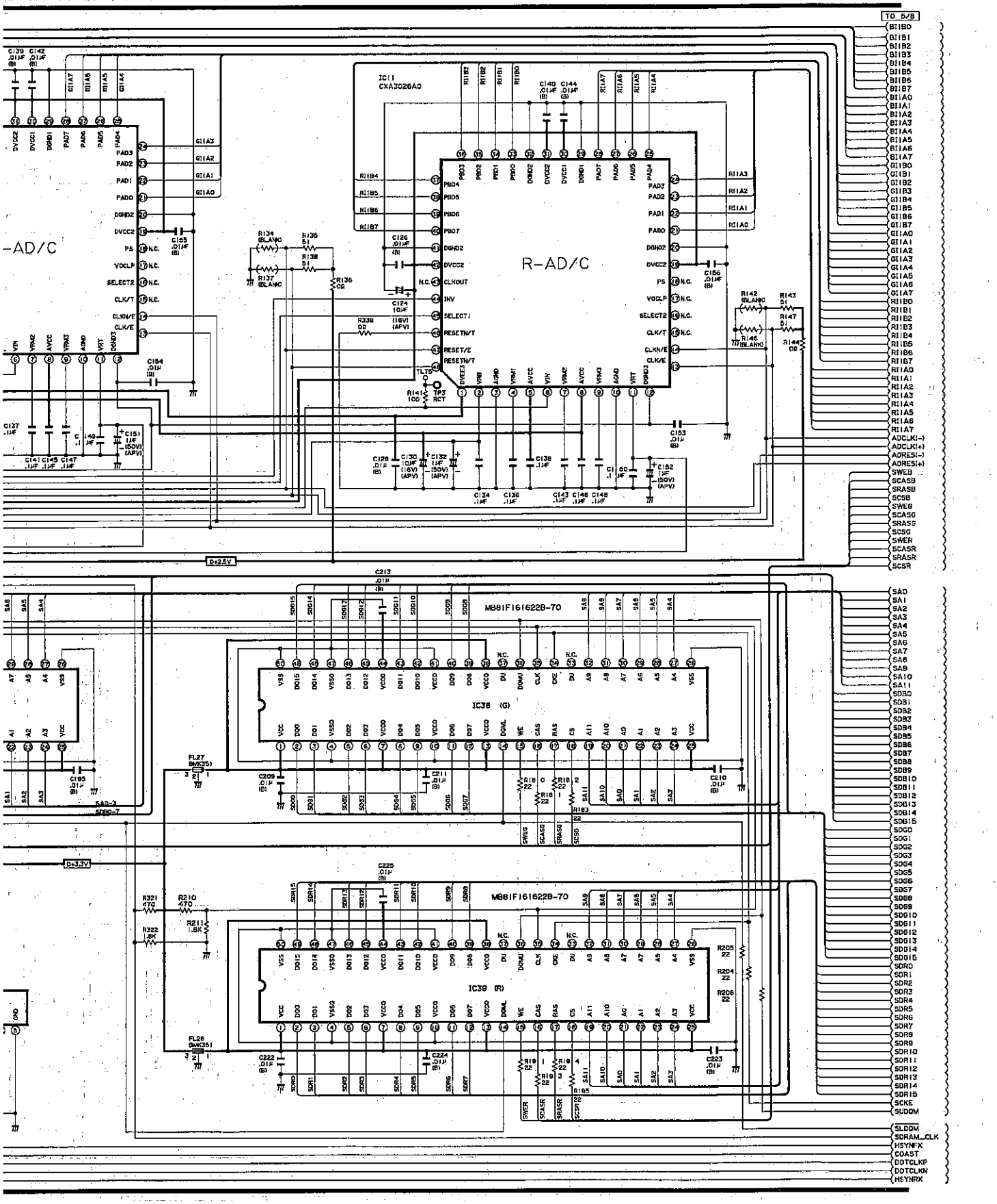


CPCI-0031CE04
(RPCI-0031CEZZ)

10	11	12	13	14	15	16	17	18	19

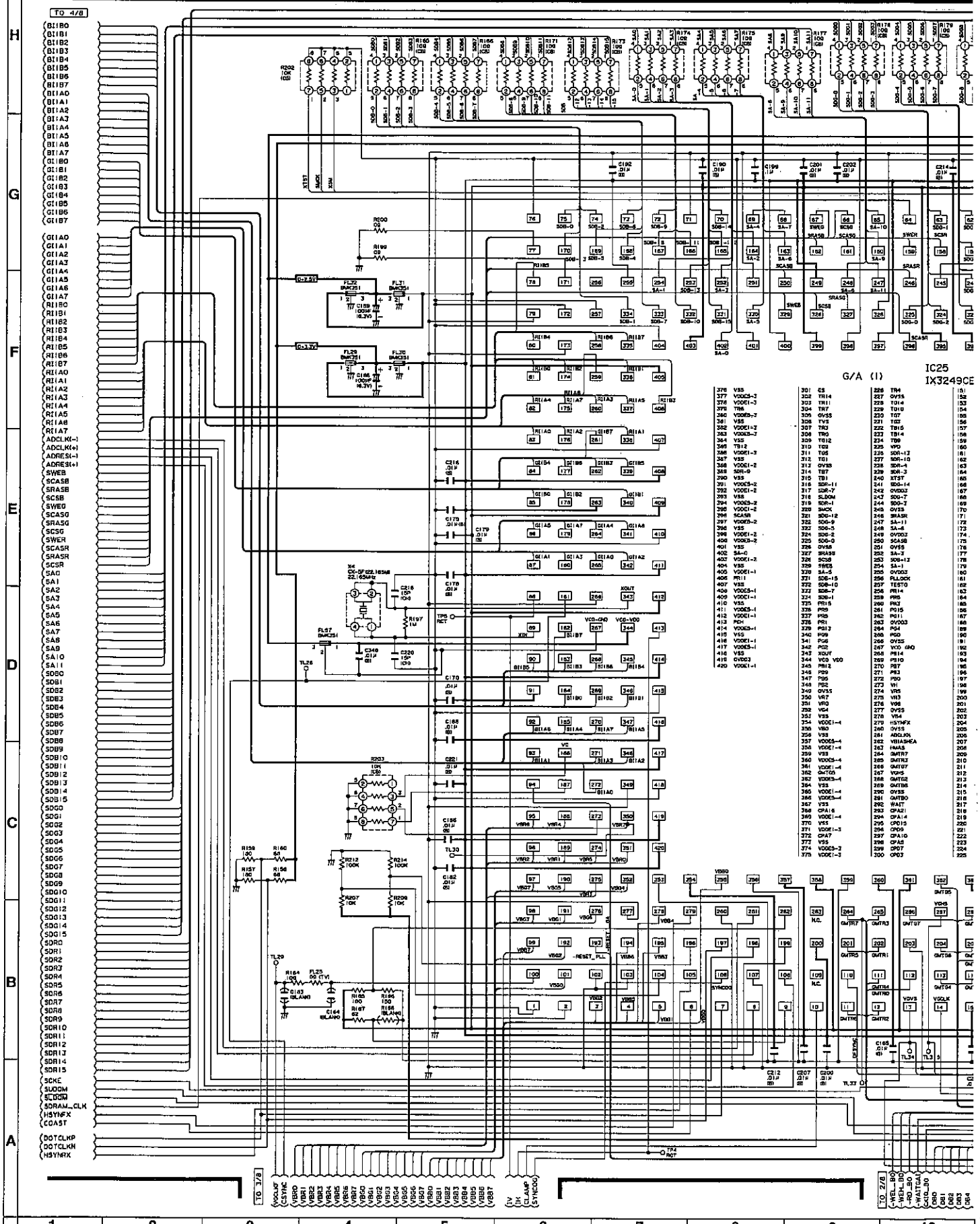
■ PC I/F UNIT-4/8 / PC-I/F-EINHEIT-4/8 PC I/F装置-4/8

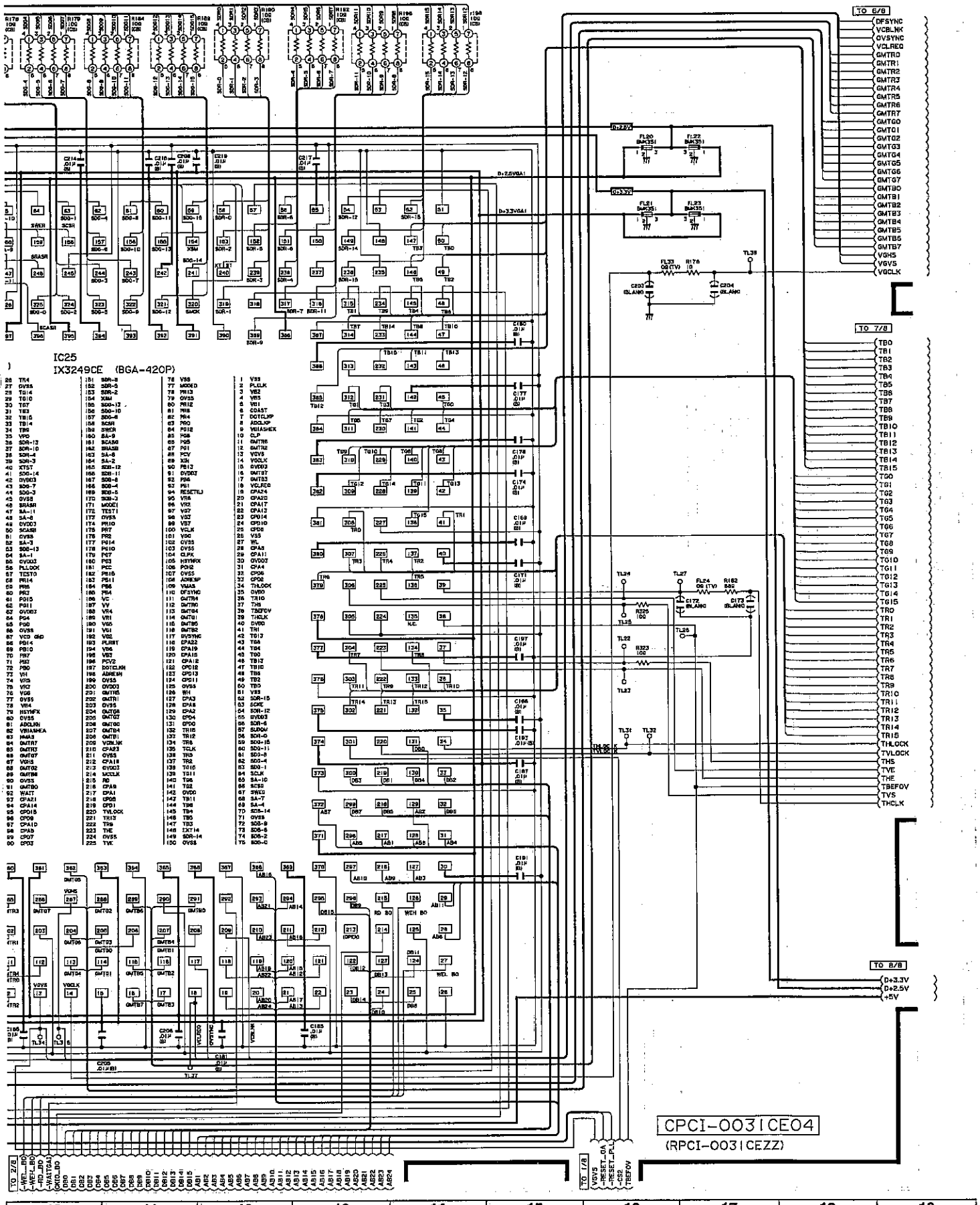




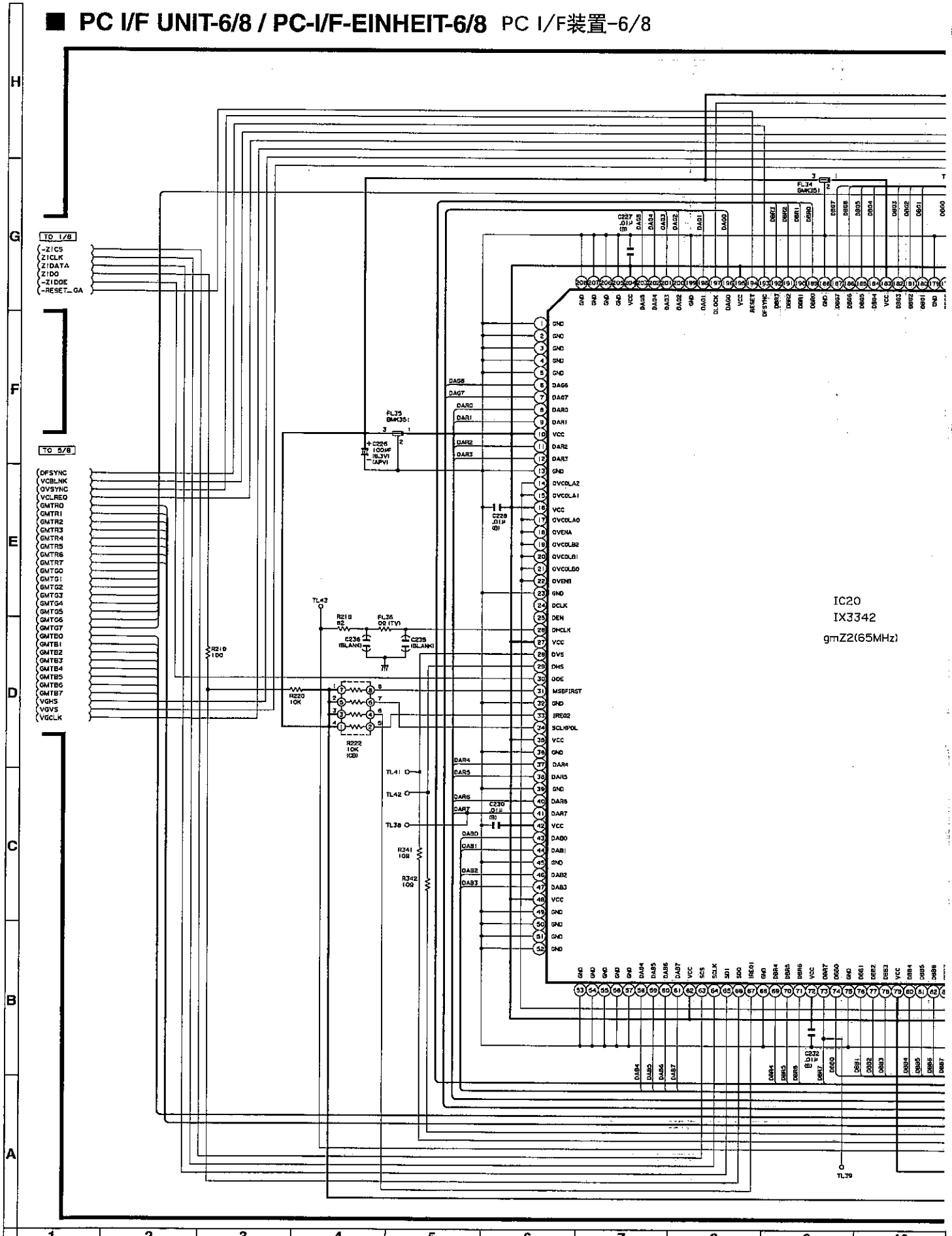
10	11	12	13	14	15	16	17	18	19

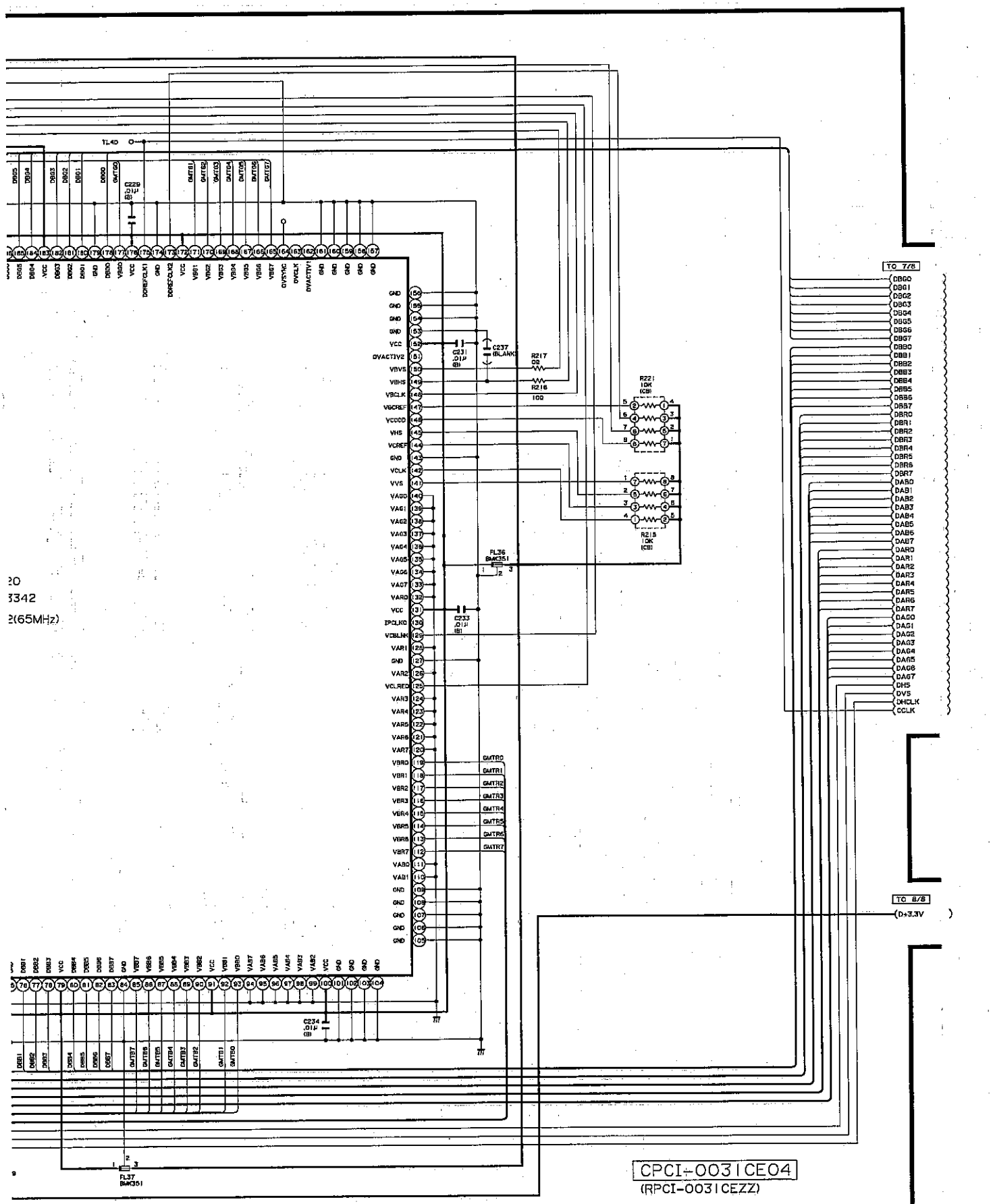
■ PC I/F UNIT-5/8 / PC-I/F-EINHEIT-5/8 PC I/F装置-5/8



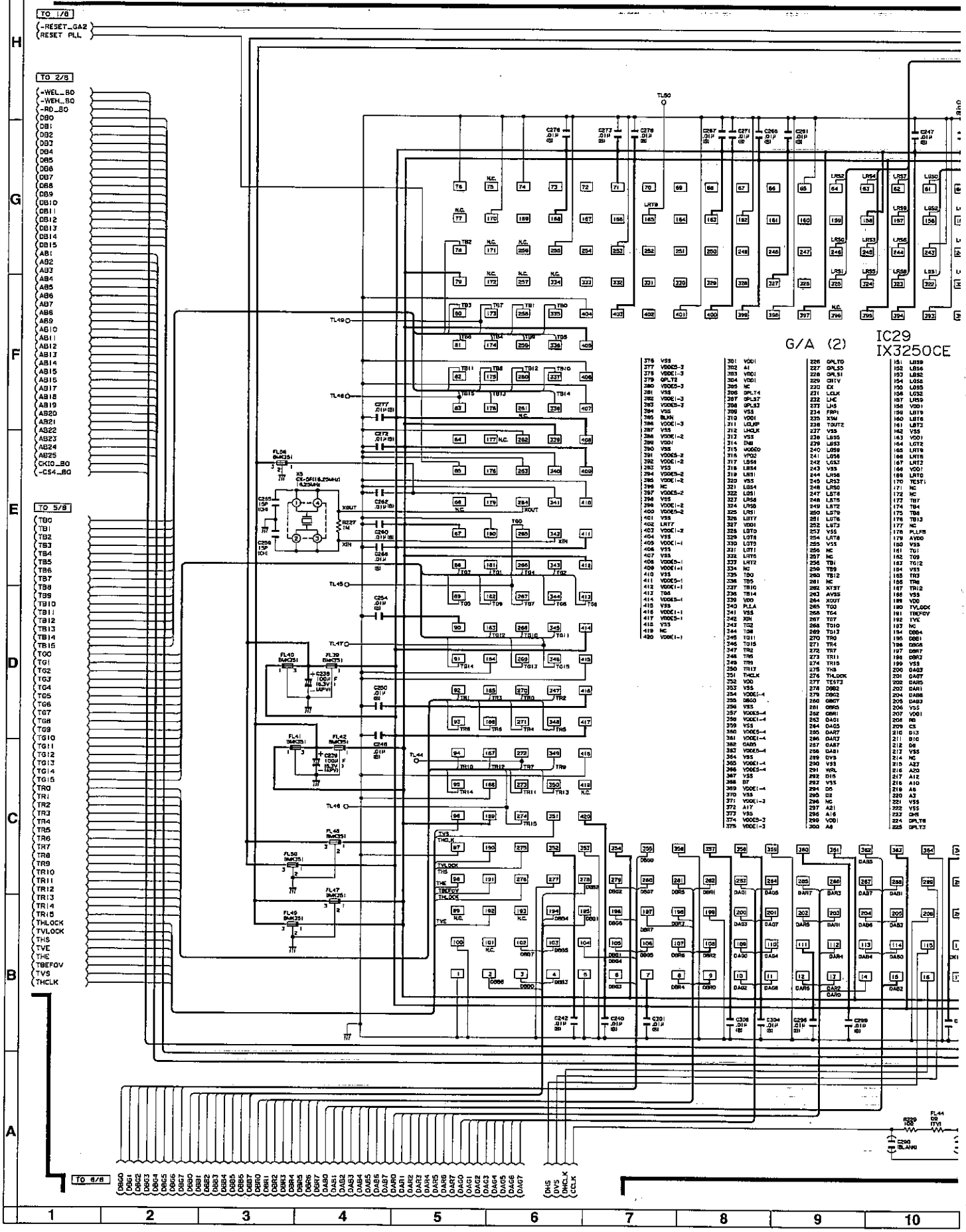

IC25
IX3249CE (BGA-420P)
TO 6/8
TO 7/8
TO 8/8
TO 2/8
TO 1/8
CPCI-0031CE04
(RPCI-0031CEZZ)

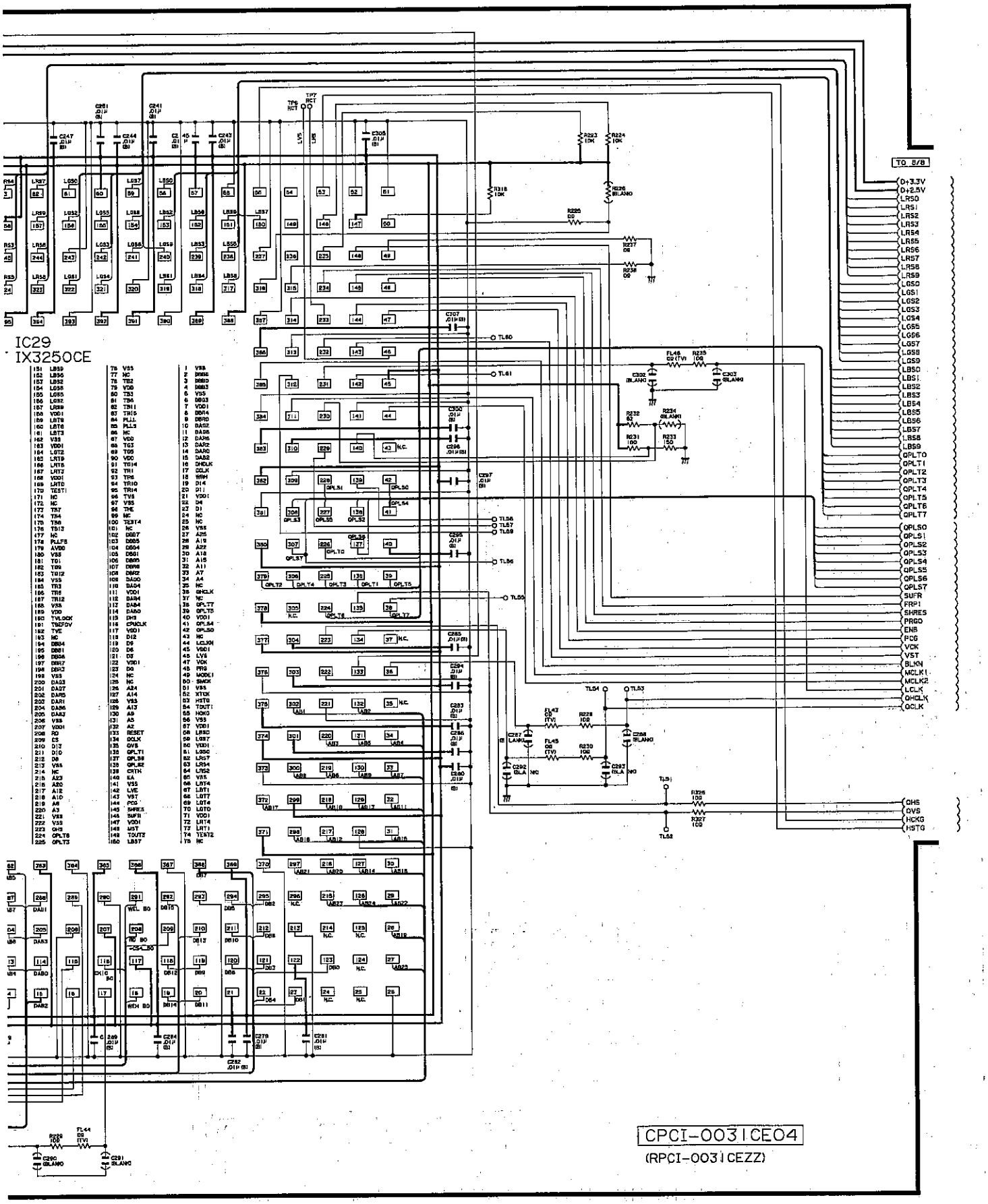
■ PC I/F UNIT-6/8 / PC-I/F-EINHEIT-6/8 PC I/F装置-6/8



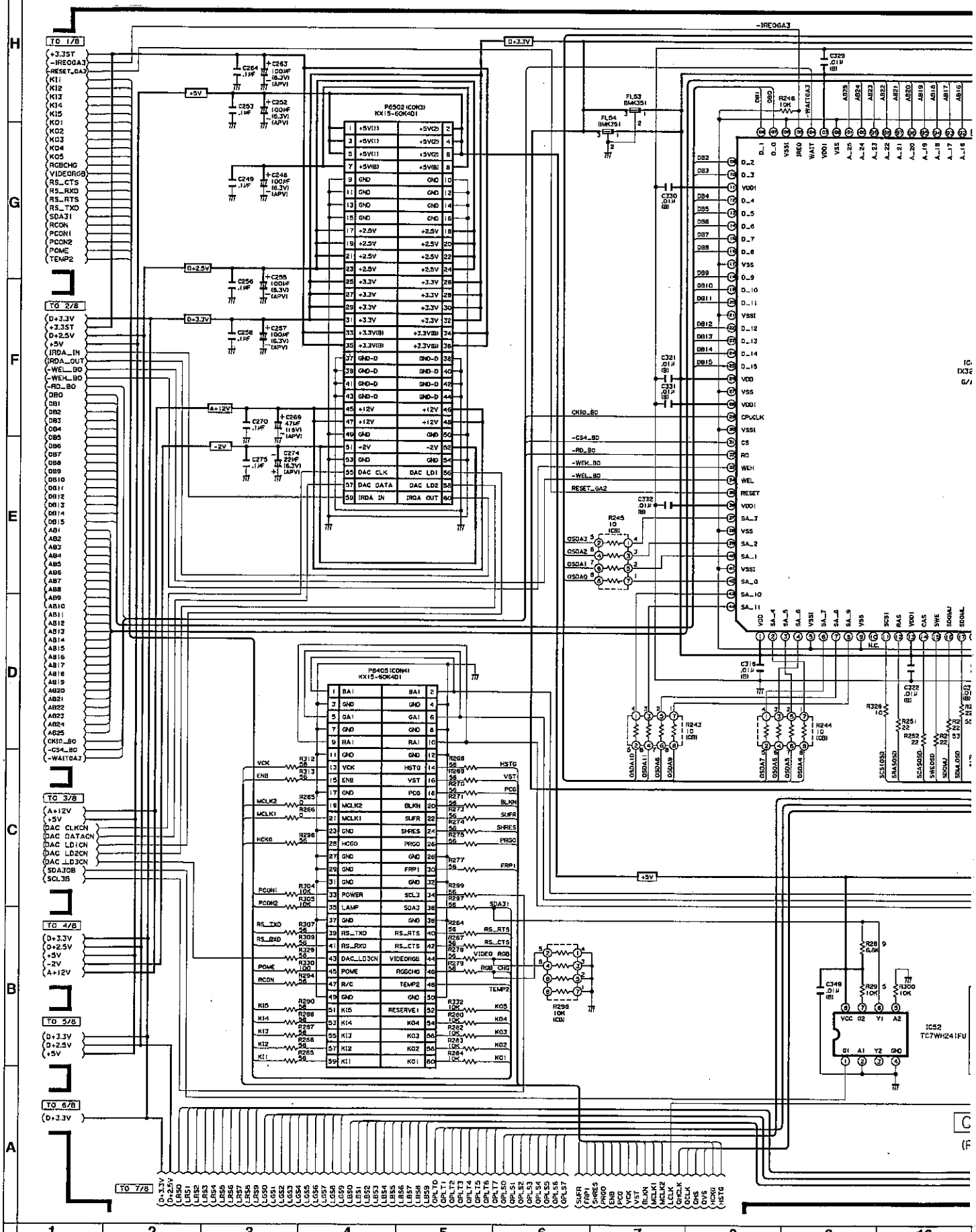

TO 7/8
TO 8/8
(D+3.3V)
CPCI-0031CE04
(RPCI-0031CEZZ)

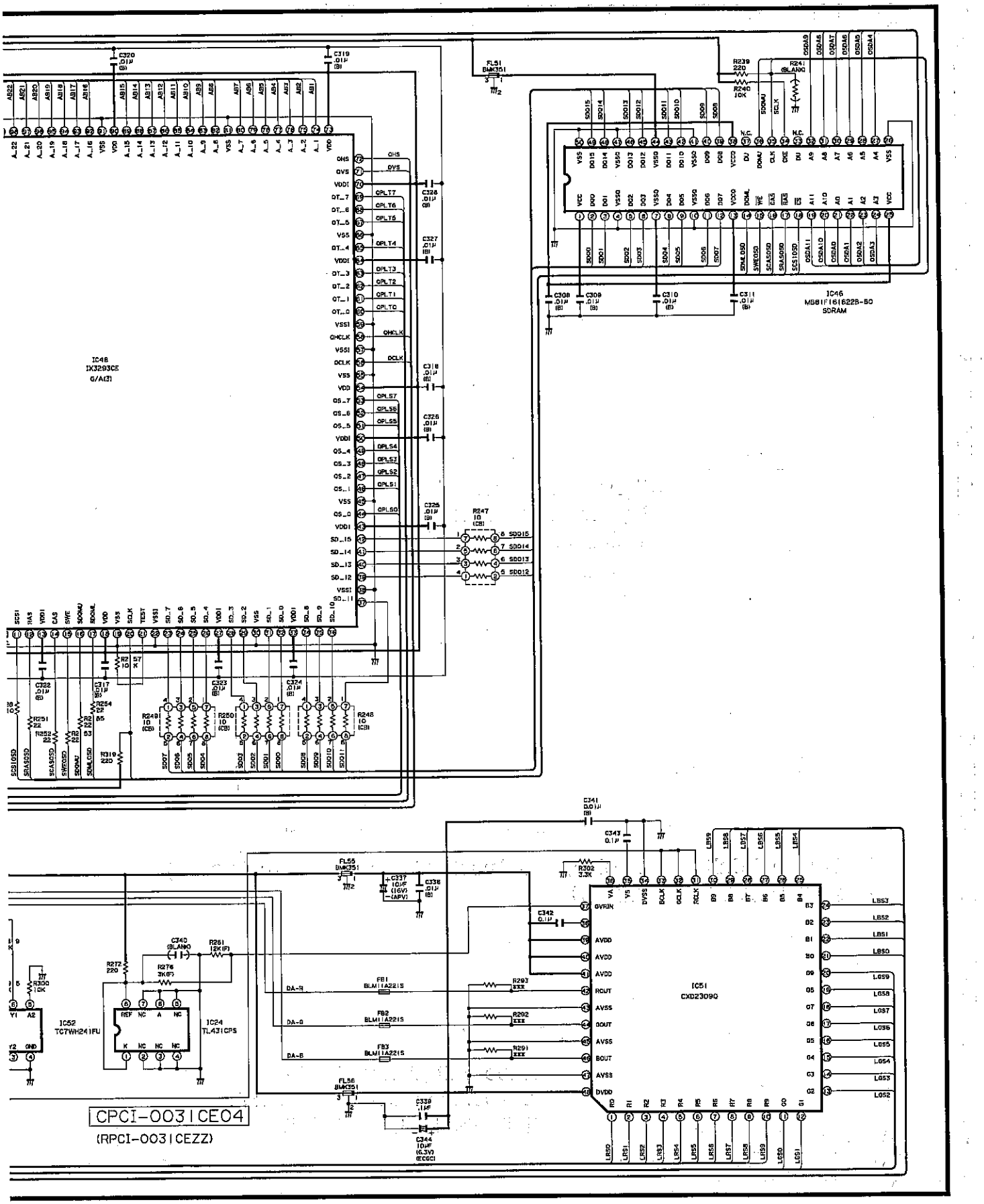
■ PC I/F UNIT-7/8 / PC-I/F-EINHEIT-7/8 PC I/F装置-7/8



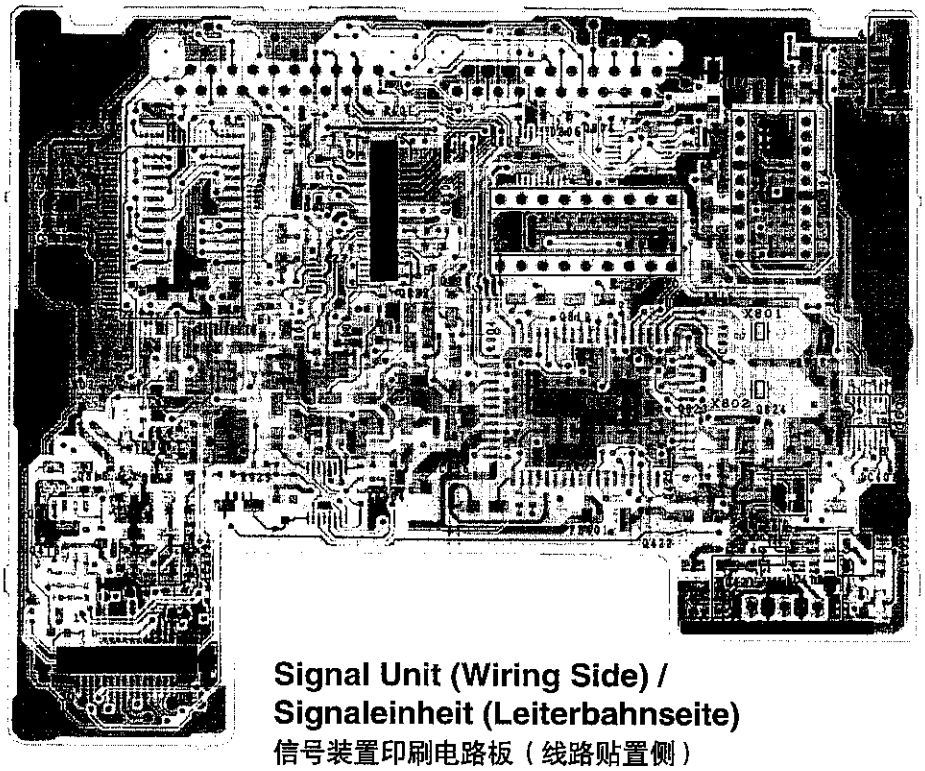

IC29
IX3250CE
TO 8/8
CPCI-003ICE04
(RPCI-003ICEZZ)

■ PC I/F UNIT-8/8 / PC-I/F-EINHEIT-8/8 PC I/F装置-8/8

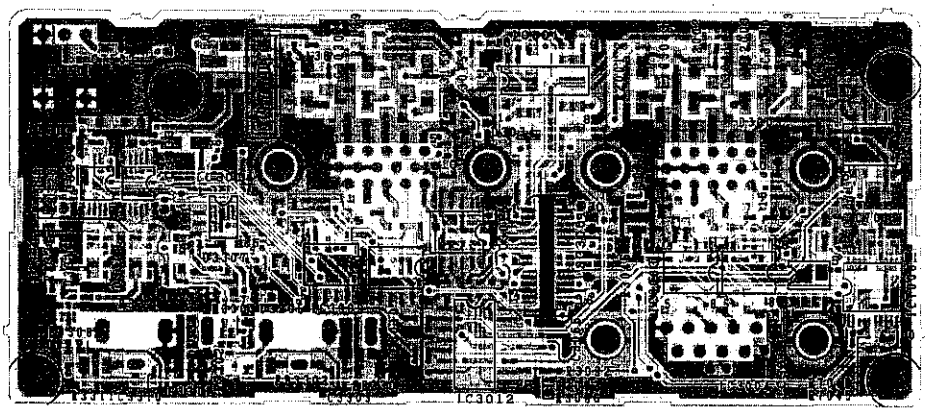



IC46
IX3293CE
G/A(3)
IC46
MB81F161622B-80
SDRAM
IC51
CXD2309Q
IC52
TC7WH241FU
IC24
TL431CPS
CPCI-0031CE04
(RPCI-0031CEZZ)

PRINTED WIRING BOARD ASSEMBLIES / LEITERPLATTENINHEITIN 印刷电路板组件

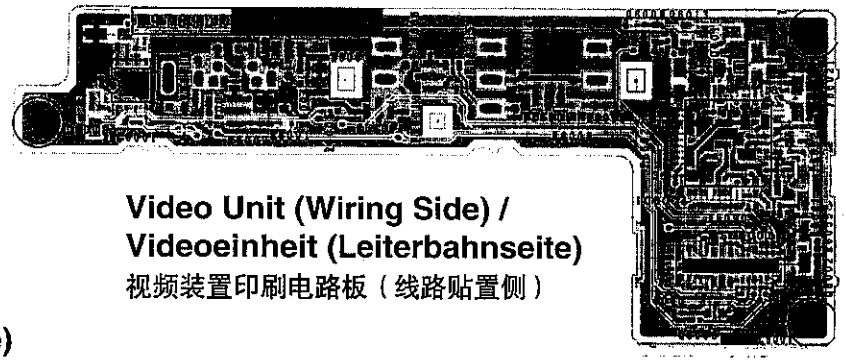


Signal Unit (Wiring Side) / Signaleinheit (Leiterbahnseite)
信号装置印刷电路板（线路贴置侧）

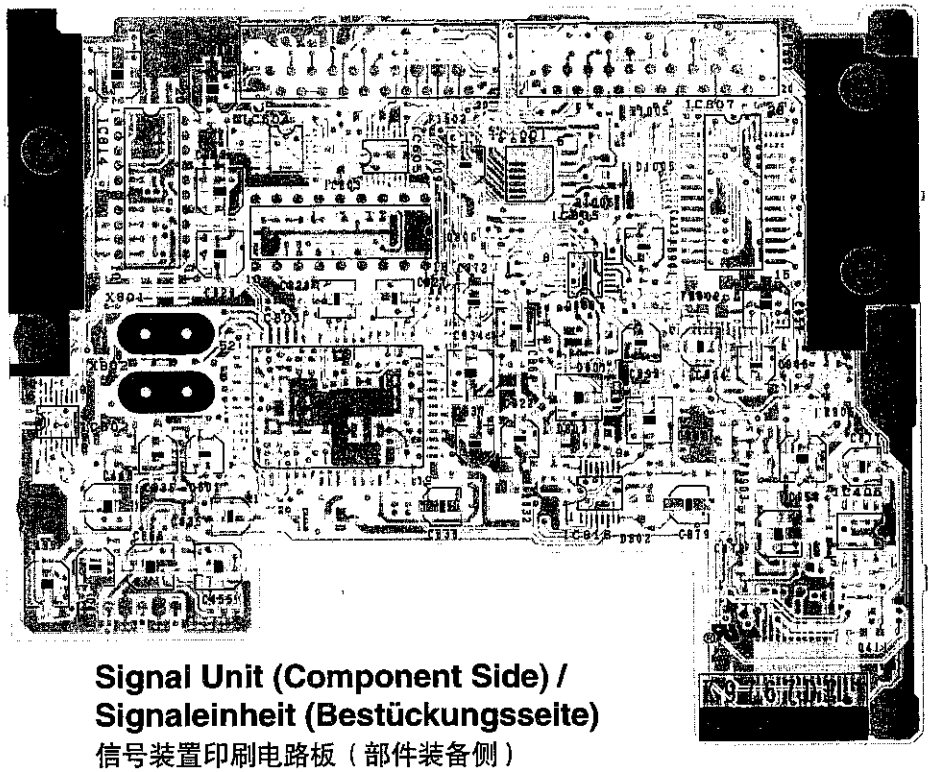


PC Terminal Unit (Wiring Side) / PC-Anschlußeinheit (Leiterbahnseite)
PC插接装置印刷电路板（线路贴置侧）

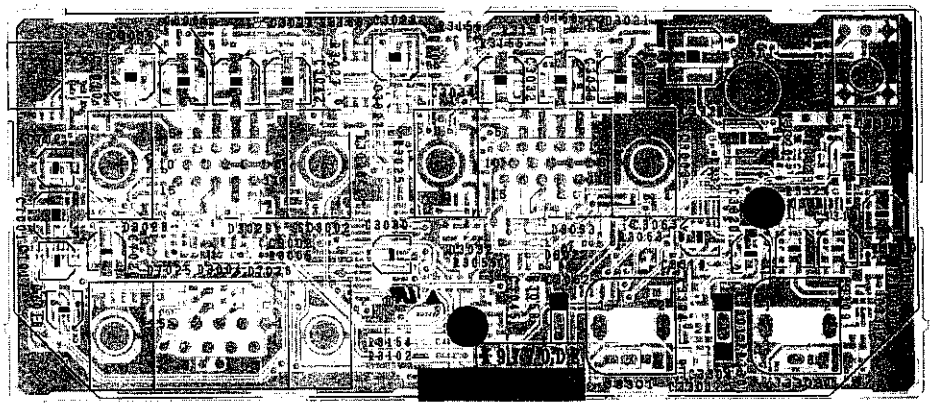
IR-DA Unit (Wiring Side) / IR-DA-Einheit (Leiterbahnseite)
IR-DA装置印刷电路板（线路贴置侧）



Video Unit (Wiring Side) / Videoeinheit (Leiterbahnseite)
视频装置印刷电路板（线路贴置侧）



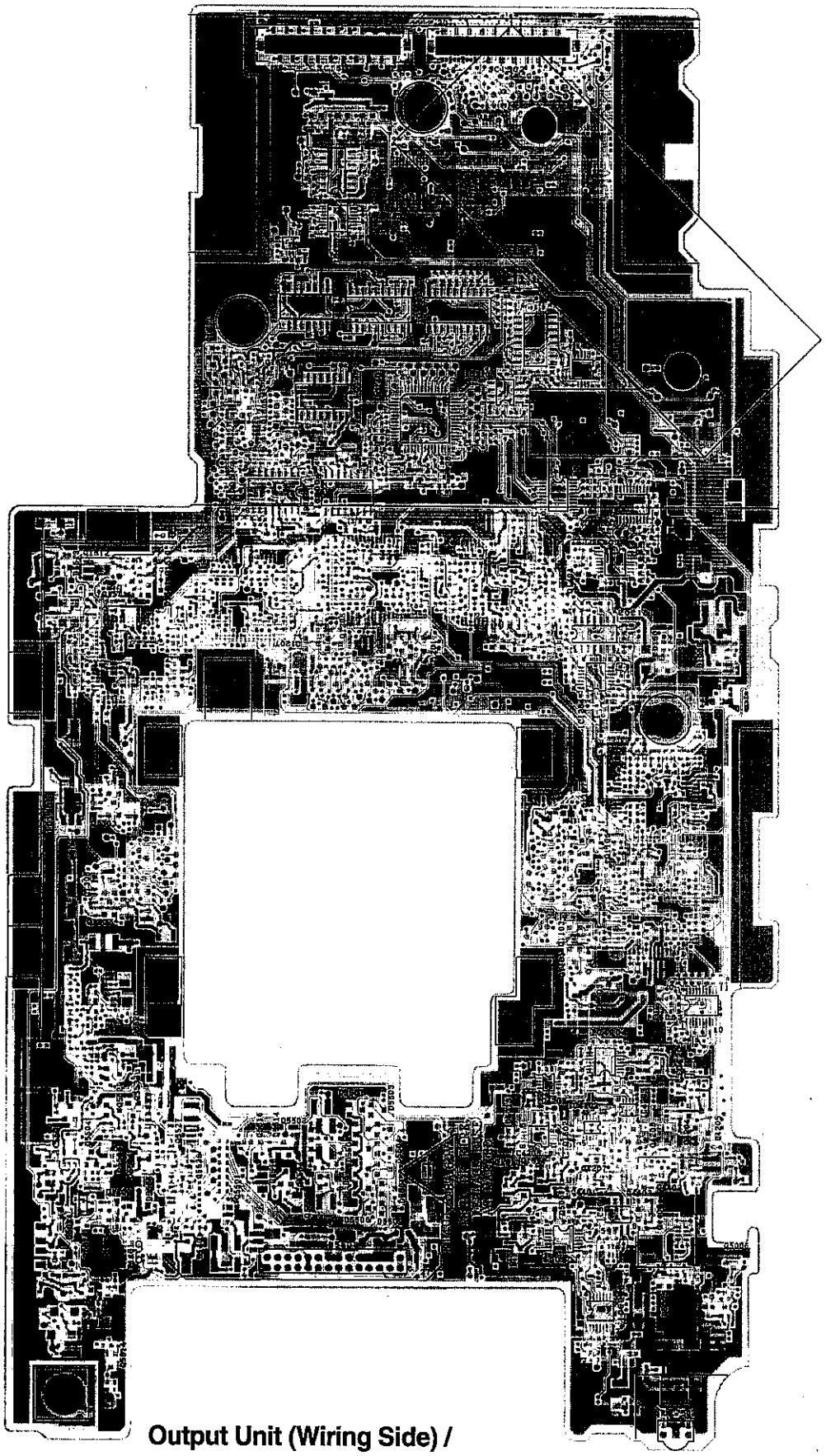
Signal Unit (Component Side) /
Signaleinheit (Bestückungsseite)
信号装置印刷电路板（部件装备侧）



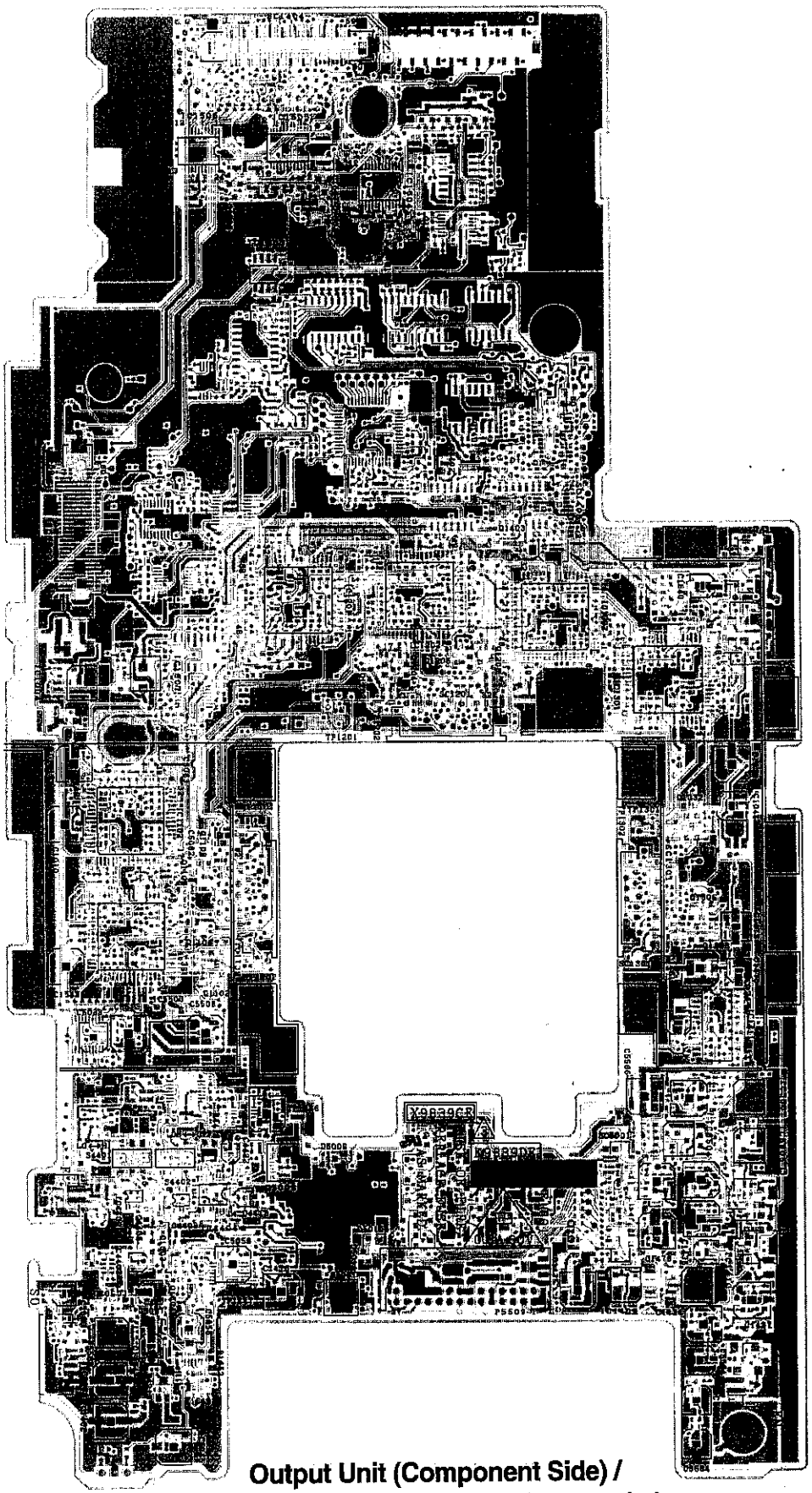
PC Terminal Unit (Component Side) / PC-Anschlußeinheit (Bestückungsseite)
PC插接装置印刷电路板（部件装备侧）

Video Unit (Component Side) /
Videoeinheit (Bestückungsseite)
视频装置印刷电路板（部件装备侧）

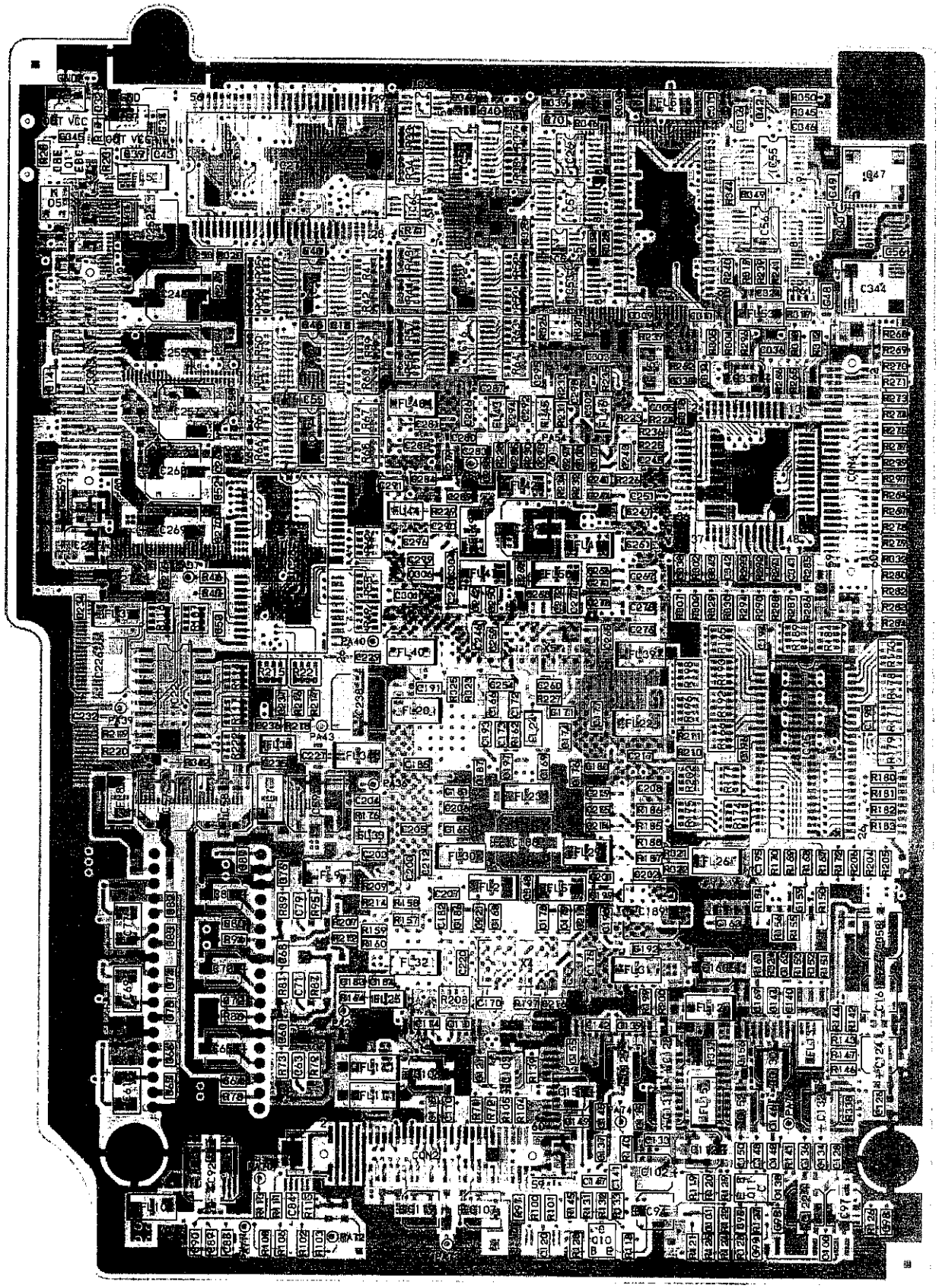
IR-DA Unit (Component Side) /
IR-DA-Einheit (Bestückungsseite)
IR-DA装置印刷电路板（部件装备侧）



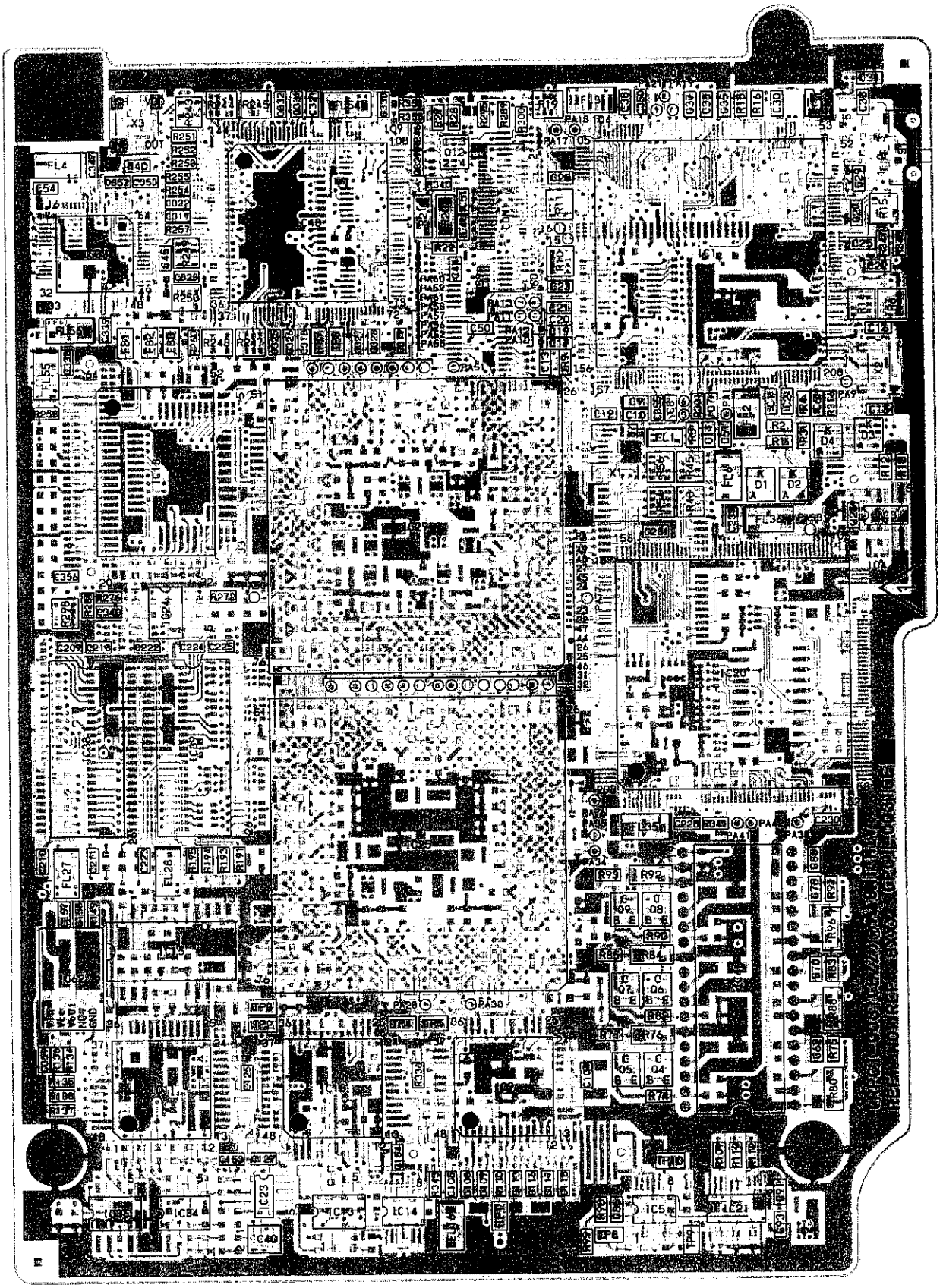
Output Unit (Wiring Side) /
Ausgabeeinheit (Leiterbahnseite)
输出装置印刷电路板（线路贴置侧）



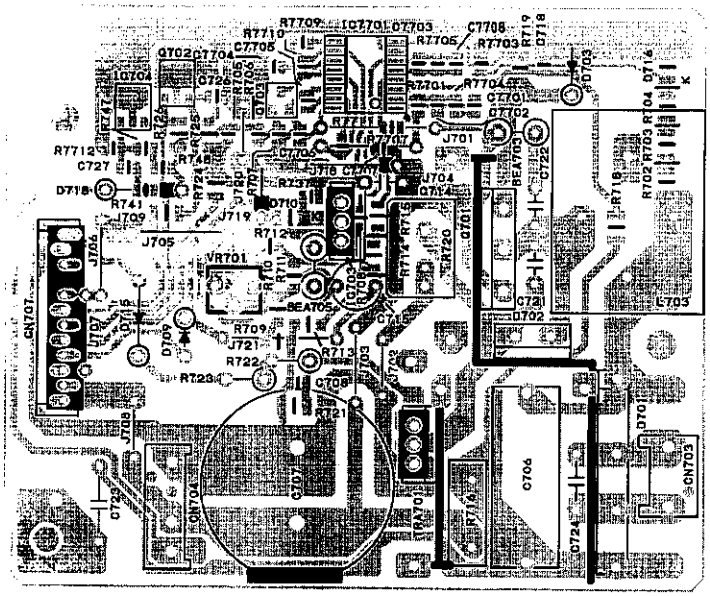
Output Unit (Component Side) /
Ausgabeeinheit (Bestückungsseite)
输出装置印刷电路板（部件装备侧）



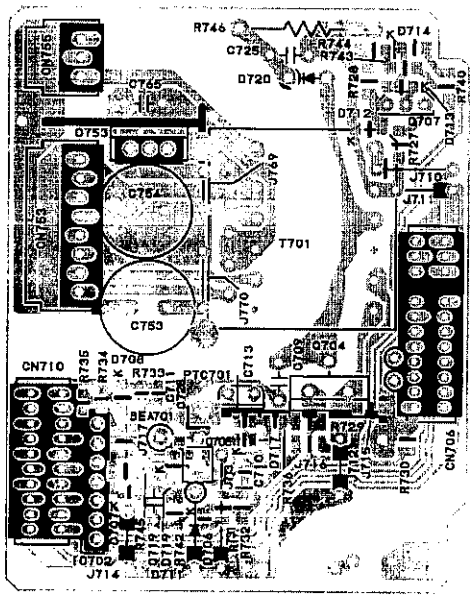
PC I/F Unit (Wiring Side) /
PC-I/F-Einheit (Leiterbahnseite)
PC I/F装置印刷电路板（线路贴置侧）



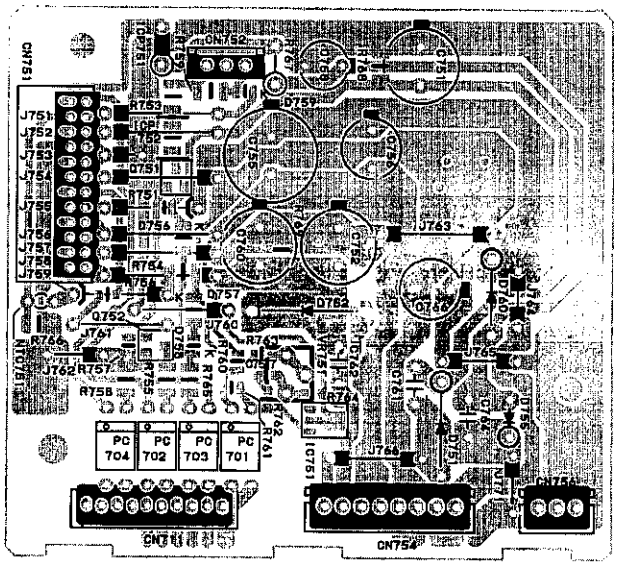
PC I/F Unit (Component Side) /
PC-I/F-Einheit (Bestückungsseite)
PC I/F装置印刷电路板（部件装备侧）



PWB-A

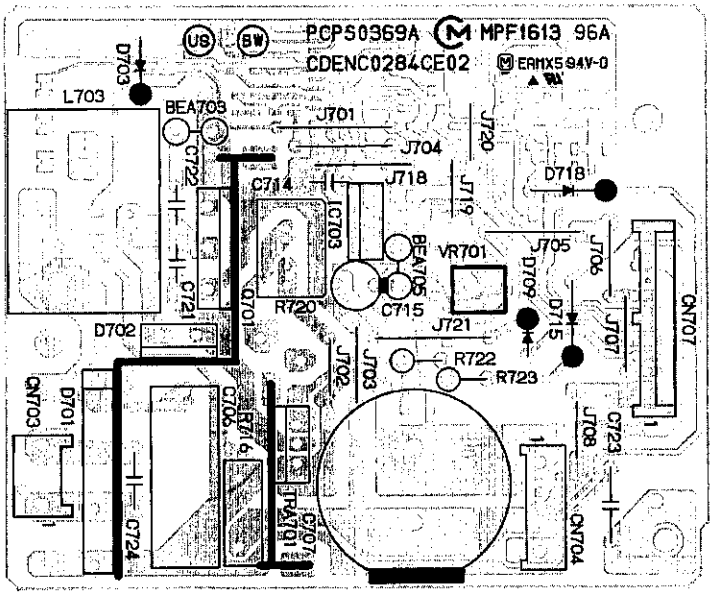


PWB-B

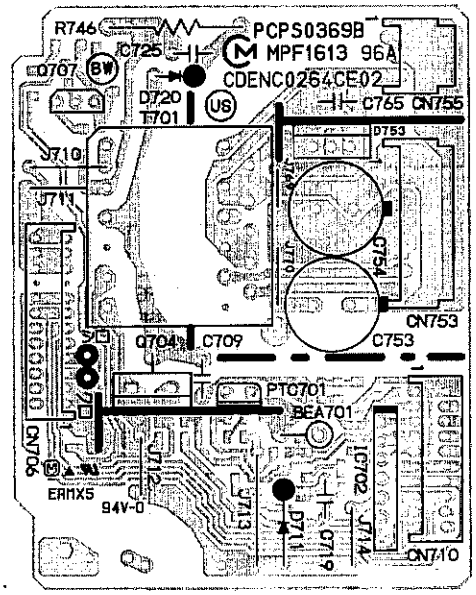


PWB-C

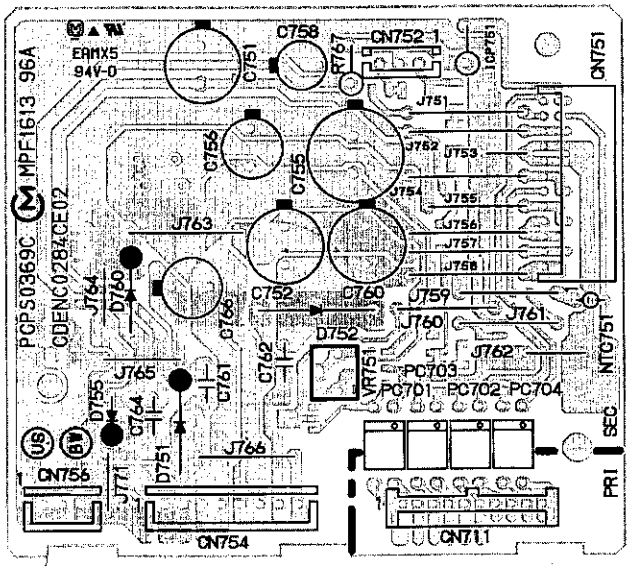
Power Unit (Wiring Side) /
Netzeinheit (Leiterbahnseite)
电源装置印刷电路板（线路贴置侧）



PWB-A

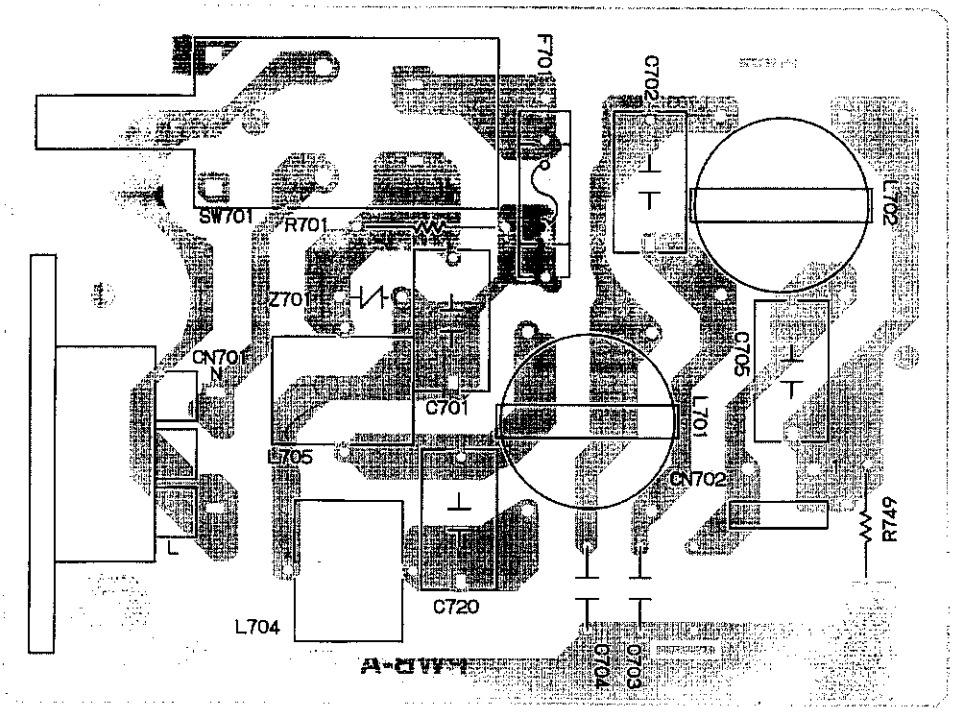


PWB-B

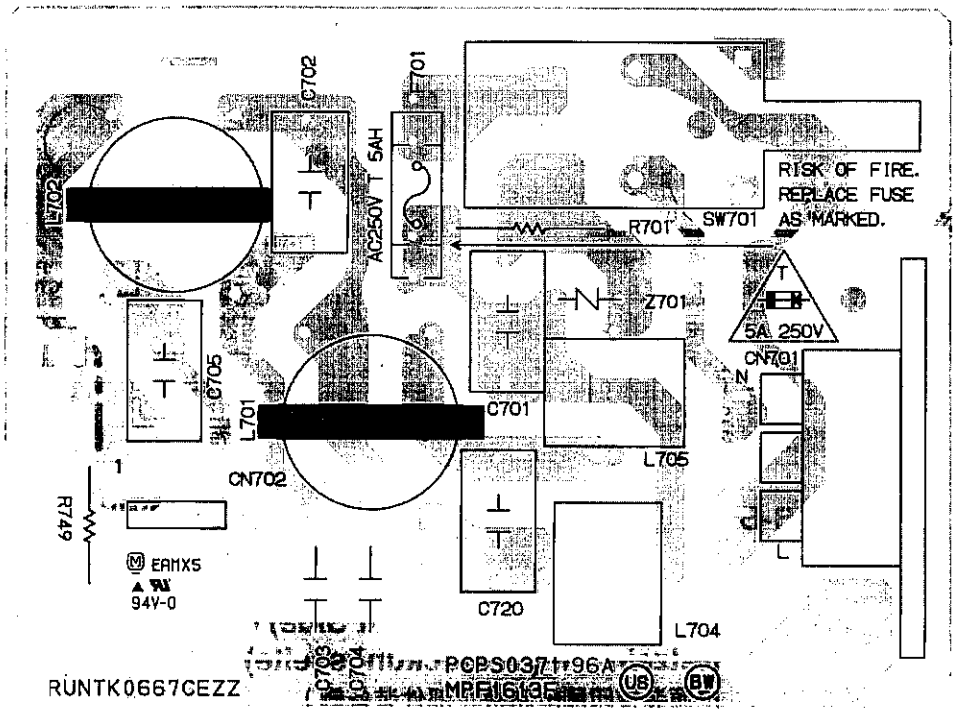


PWB-C

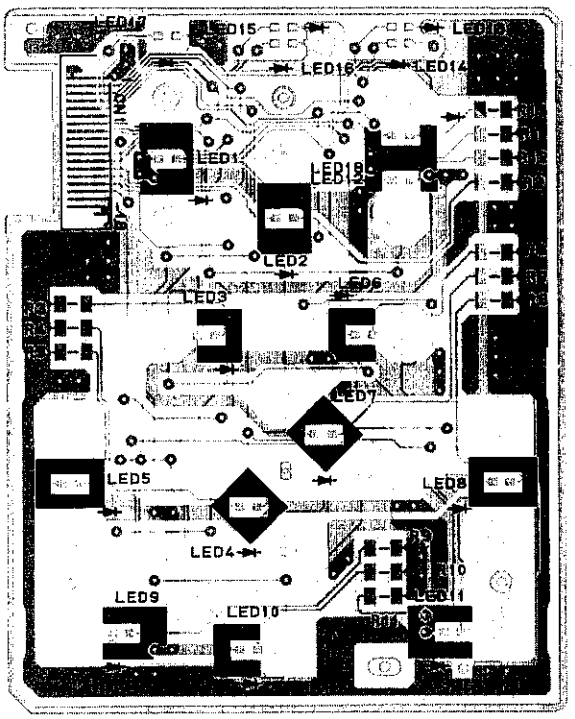
Power Unit (Component Side) /
Netzeinheit (Bestückungsseite)
电源装置印刷电路板（部件装备侧）



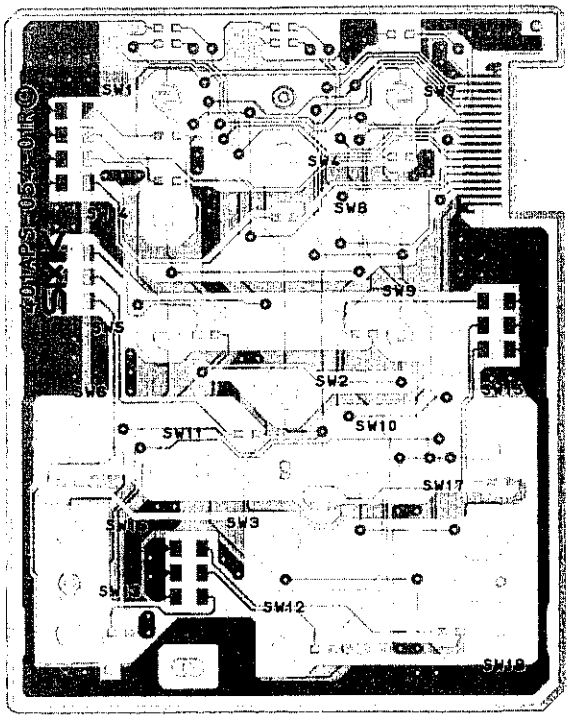
Inlet Unit (Wiring Side) /
Eingangseinheit (Leiterbahnseite)
输入装置印刷电路板（线路贴置侧）



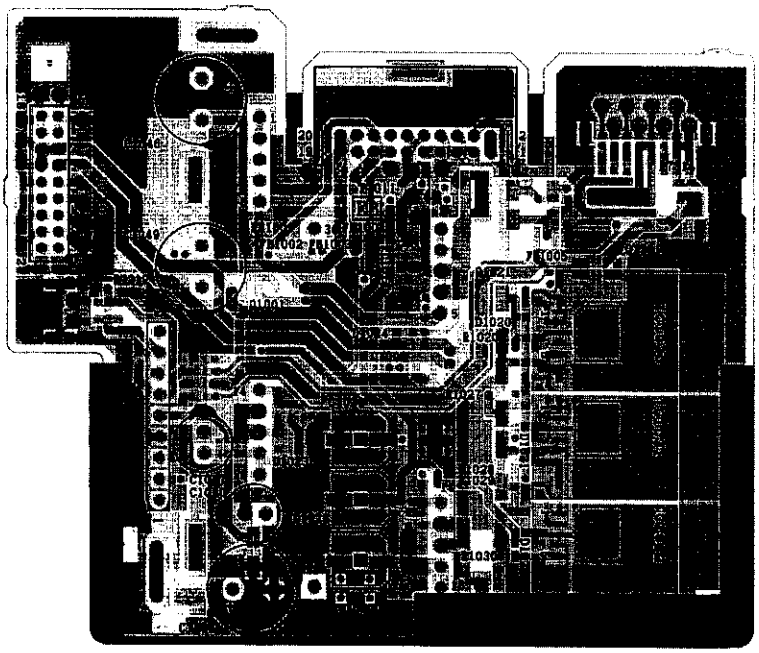
Inlet Unit (Component Side) /
Eingangseinheit (Bestückungsseite)
输入装置印刷电路板（部件装备侧）



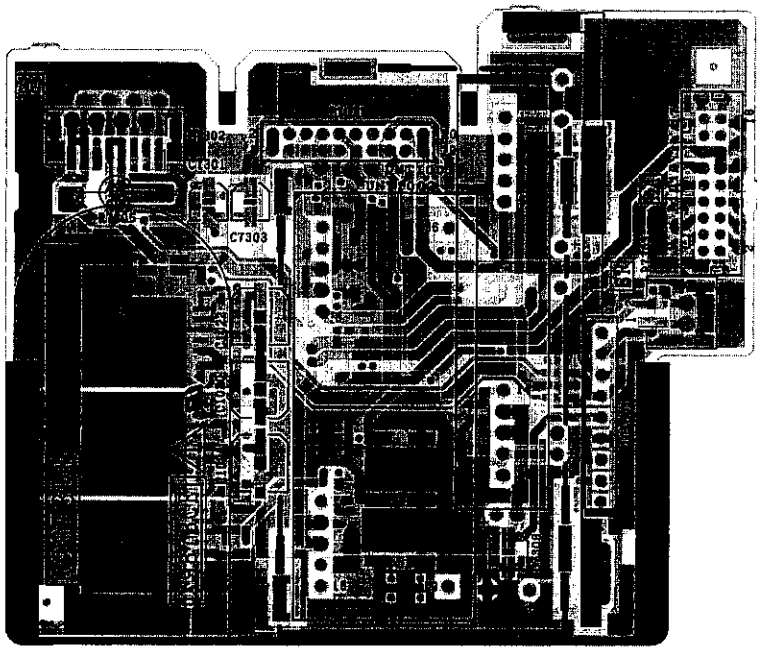
Operation Key Unit (Wiring Side) /
Bedienungstasteneinheit (Leiterbahnseite)
操作键装置印刷电路板（线路贴置侧）



Operation Key Unit (Component Side) /
Bedienungstasteneinheit (Bestückungsseite)
操作键装置印刷电路板（部件装备侧）



S-Out/REG Unit (Wiring Side) /
S-Ausgnag/REG-Einheit (Leiterbahnseite)
输出/REG装置印刷电路板（线路贴置侧）



S-Out/REG Unit (Component Side) /
S-Ausgang/REG-Einheit (Bestückungsseite)
输出/REG装置（部件装备侧）

PARTS LIST

PARTS REPLACEMENT

Replacement parts which have these special safety characteristics identified in this manual: electrical components having such features are identified by "⚠" in the Replacement Parts Lists.
The use of a substitute replacement part which does not have the same safety characteristics as the factory recommended replacement parts shown in this service manual may create shock, fire or other hazards.

"HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following informations.

1. MODEL NUMBER	2. REF. NO.
3. PART NO.	4. DESCRIPTION
5. CODE	6. QUANTITY

MARK ★: SPARE PARTS-DELIVERY SECTION

ERSATZTEILLISTE

AUSTAUSCH VON TEILEN

Ersatzteile, die besondere Sicherheitseigenschften haben, sind in dieser Anleitung markiert. Elektrische Komponenten mit solchen Eigenshaften sind in den Ersatzteil durch "⚠" gekenn-zeichnet.
Der Gebrauch von Ersatzteilen, die nicht deselben Sicherheits-eigenschaften haben wie die vom Hersteller empfohlenen ud in der Bedienungsanleitung angegebenen, können zur Ursache von Blitzeinschlägen, Bränden und anderen Gefahren werden.

"WIE MAN ERSATSTEILE BESTELLT"

Damit Ihre Bestellung promt und korrekt ausgeführt wird, geben Sie bitte folgende Informationen.

1. MODELL NR.	2. REF. NR.
3. ERSATZTEIL NR.	4. BESCHREIBUNG
5. KODE	6. QUANTITÄT

MARKIERUNG ★: ERSATZTEILE-LIEFERUNG

更换零件表

更换零件

本维修手册对具有特别安全要求的零件均用标记加以识别：在此更换零件表中，具有特别安全要求的电路元件均用 ⚠ 标记，以便注意识别。更换零件时，为了用户的安全以及液晶投影机原有的工作性能，务请使用夏普规定零件。否则，可能有导致触电、火灾或其他不测事故发生的可能。

更换零件的订货方法

为了能迅速而确实地接受订货、以及正确无误地按时交货，在订货时请将下列各项明确告知。

1. 型号	2. 参考编号
3. 零件编号	4. 零件名称
5. 代号	6. 数量

附★记号为备用部件的交货部门

Ref. No.	Part No.	★	Description	Code

LCD PANELS/UNIT

NOTE: THE PARTS HERE SHOWN ARE SUPPLIED AS AN ASSEMBLY BUT NOT INDEPENDENTLY.

	RLCDP0073CEZZ	J	LCD Module Unit, Red	CZ
	RLCDP0074CEZZ	J	LCD Module Unit, Green	CZ
	RLCDP0075CEZZ	J	LCD Module Unit, Blue	CZ
	RDENC0290CEZZ	J	Ballast Unit	CD

PRINTED WIRING BOARD ASSEMBLIES (NOT REPLACEMENT ITEM)

	DUNTK9856DE06	–	Signal Unit	—
	DUNTK9839DE06	–	Output Unit	—
	DUNTK9769DE16	–	Video Unit	—
	DUNTK9857DE06	–	PC terminal Unit	—
	DUNTK9858DE06	–	IR-DA Unit	—
	DUNTK9873DE06	–	Sound Out/Regulator Unit	—
	RUNTK0667CEZZ	–	Inlet Unit	—
	CDENC0285CE02	–	Power Unit	—
	CPCi-0031CE04	–	PC I/F Unit	—

DUNTK9856DE06
SIGNAL UNIT

INTEGRATED CIRCUITS

IC401	VHiNJM2240M-1	J	NJM2240M	AG
IC402	VHiNJM2240M-1	J	NJM2240M	AG
IC406	VHiBA7046F/-1	J	BA7046F	AF
IC409	VHiMM1041XM-1	J	MM1041XMR	AG
IC418	VHiTC4W53U/-1	J	TC4W53FU	AF
IC602	VHiTHC4538T-1	J	TC74HC4538AFT	AL
IC603	VHiTHC4538T-1	J	TC74HC4538AFT	AL
IC604	VHiSNHC153T-1	J	SN74HC153PW	AK
IC605	VHiSNHC153T-1	J	SN74HC153PW	AK
IC801	VHiTDA8854H-2	J	TDA8854H/N2	BD
IC803	VHiTDA4565/-1	J	TDA4565/V6	AN
IC805	VHiNJM2060V-1	J	NJM2060V	AF
IC806	VHiTC90A11F-1	J	TC90A11F	AZ
IC807	VHiM518221S-1	J	MSM518221-30JS	BA
IC808	VHiPST600DM-1	J	IC-PST600DMT	AE
IC814	VHiTA8814N/-1	J	TA8814N	AV
IC816	VHiNJM2283V-1	J	NJM2283V	AG
IC1001	VHiPQ20VZ11-1	J	PQ20VZ11	AH

TRANSISTORS

Q411	VS2PD601AR/-1	J	2PD601AR	AB
Q412	VS2SB1132Q/-1	J	2SB1132Q	AC
Q416	VS2PD601AR/-1	J	2PD601AR	AB
Q420	VS2SC2411KR-1	J	2SC2411KR	AC
Q421	VS2SC2411KR-1	J	2SC2411KR	AC
Q422	VS2SC2411KR-1	J	2SC2411KR	AC
Q804	VS2PB709AR/-1	J	2PB709AR	AB
Q805	VS2PD601AR/-1	J	2PD601AR	AB
Q806	VS2PD601AR/-1	J	2PD601AR	AB
Q808	VS2PD601AR/-1	J	2PD601AR	AB
Q809	VS2PB709AR/-1	J	2PB709AR	AB
Q810	VS2PB709AR/-1	J	2PB709AR	AB
Q814	VS2PD601AR/-1	J	2PD601AR	AB
Q815	VS2PB709AR/-1	J	2PB709AR	AB
Q816	VS2PD601AR/-1	J	2PD601AR	AB
Q817	VS2PD601AR/-1	J	2PD601AR	AB

DUNTK9856DE06
SIGNAL UNIT (Cotinued)

Ref. No.	Part No.	★	Description	Code
Q819	VSDTC144EK/-1	J	DTC144EK	AB
Q820	VS2PD601AR/-1	J	2PD601AR	AB
Q821	VS2PB709AR/-1	J	2PB709AR	AB
Q822	VSDTC114EK/-1	J	DTC114EK	AB
Q823	VS2SC2411KR-1	J	2SC2411KR	AC
Q824	VS2SC2411KR-1	J	2SC2411KR	AC
Q825	VS2SC2411KR-1	J	2SC2411KR	AC
Q903	VS2PB709AR/-1	J	2PB709AR	AB
Q905	VS2PD601AR/-1	J	2PD601AR	AB
Q906	VS2PD601AR/-1	J	2PD601AR	AB
Q907	VS2PD601AR/-1	J	2PD601AR	AB
Q910	VS2PD601AR/-1	J	2PD601AR	AB
	DIODES			
D404	RH-EX0519CEZZ	J	Zener Diode	AB
D801	VHDMA152WA/-1	J	Diode	AA
D802	RH-EX0226CEZZ	J	Zener Diode, 12V	AB
D803	RH-EX0226CEZZ	J	Zener Diode, 12V	AB
D805	VHDDAN202K/-1	J	Diode	AB
D1005	VHDDAN202K/-1	J	Diode	AB
	PACKAGED CIRCUITS			
X801	RCRSB0009PEZZ	J	Crystal	AL
X802	RCRSB0008PEZZ	J	Crystal	AH
	COILS			
L401	VP-CF390K0000	J	Peaking 39µH	AB
L904	VP-1M330J4R2N	J	Peaking 33µH	AC
L905	VP-1M270J3R8N	J	Peaking 27µH	AC
L906	VP-1M330J4R2N	J	Peaking 33µH	AC
L908	VP-1M220J2R9N	J	Peaking 22µH	AC
	CAPACITORS			
C404	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C414	VCKYCY1HB103K	J	0.01 50V Ceramic	AA
C416	VCKYCY1AF105Z	J	1.0 10V Ceramic	AC
C423	VCEAPF1CW106M	J	10 16V Electrolytic	AB
C425	VCKYCY1HB103K	J	0.01 50V Ceramic	AA
C437	VCKYCY1CF104Z	J	0.1 16V Ceramic	AA
C441	VCKYCY1HF103Z	J	0.01 50V Ceramic	AA
C443	VCKYCY1HF102Z	J	1000p 50V Ceramic	AA
C447	VCCCCY1HH5R0C	J	5.0p 50V Ceramic	AA
C448	VCEAPF1HW475M	J	4.7 50V Electrolytic	AB
C450	VCKYCY1HF103Z	J	0.01 50V Ceramic	AA
C451	VCKYCY1HF103Z	J	0.01 50V Ceramic	AA
C452	VCKYCY1HF102Z	J	1000p 50V Ceramic	AA
C453	VCEAPF1CW106M	J	10 16V Electrolytic	AB
C454	VCCCCY1HH7R0D	J	7.0p 50V Ceramic	AA
C455	VCEAPF1CW226M	J	22 16V Electrolytic	AB
C456	VCKYCY1HF103Z	J	0.01 50V Ceramic	AA
C458	VCKYCY1HB103K	J	0.01 50V Ceramic	AA
C472	VCEAPF0JW476M	J	47 6.3V Electrolytic	AB
C485	VCEAPF1HW475M	J	4.7 50V Electrolytic	AB
C486	VCKYCY1HB103K	J	0.01 50V Ceramic	AA
C487	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C488	VCKYCY1HB103K	J	0.01 50V Ceramic	AA
C489	VCKYCY1CF104Z	J	0.1 16V Ceramic	AA
C490	VCKYCY1CF104Z	J	0.1 16V Ceramic	AA
C491	VCCCCY1EH102J	J	1000p 25V Ceramic	AB
C495	VCEAPF1CW226M	J	22 16V Electrolytic	AB
C601	VCEAPF1HW105M	J	1.0 50V Electrolytic	AB
C602	VCFRED1HM472J	J	4700p 50V Mylar	AD
C603	VCFRED1HM222J	J	2200p 50V Mylar	AC
C606	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C607	VCCCCY1EH102J	J	1000p 25V Ceramic	AB
C608	VCCCCY1EH102J	J	1000p 25V Ceramic	AB
C609	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C610	VCCCCY1EH102J	J	1000p 25V Ceramic	AB
C611	VCCCCY1EH102J	J	1000p 25V Ceramic	AB
C612	VCEAPF0JW476M	J	47 6.3V Electrolytic	AB
C613	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA

Ref. No.	Part No.	★	Description	Code
C650	RC-KZ0416CEZZ	J	10 25V Ceramic	AE
C810	VCCCCY1HH180J	J	18p 50V Ceramic	AA
C811	VCCCCY1HH180J	J	18p 50V Ceramic	AA
C812	VCKYCY1CF104Z	J	0.1 16V Ceramic	AA
C814	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C815	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C816	VCKYCY1HF103Z	J	0.01 50V Ceramic	AA
C817	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C818	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C819	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C822	VCCCCY1HH470J	J	47p 50V Ceramic	AA
C823	VCCCCY1HH470J	J	47p 50V Ceramic	AA
C824	VCCCCY1HH221J	J	220p 50V Ceramic	AA
C825	VCCCCY1HH221J	J	220p 50V Ceramic	AA
C826	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C827	VCE9PF1HW105M	J	1.0 50V Elect.(N.P)	AC
C828	VCE9PF1HW105M	J	1.0 50V Elect.(N.P)	AC
C829	VCEAPF1CW226M	J	22 16V Electrolytic	AB
C830	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C831	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C832	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C833	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C834	VCFRED1HM332J	J	3300p 50V Mylar	AD
C835	VCEAPF1CW107M	J	100 16V Electrolytic	AD
C836	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C837	VCEAPF1CW107M	J	100 16V Electrolytic	AD
C838	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C839	VCEAPF1HW225M	J	2.2 50V Electrolytic	AB
C840	VCFYEC1CM223J	J	0.022 16V Mylar	AC
C844	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C845	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C852	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C856	VCFYEC1CM274J	J	0.27 16V Mylar	AE
C857	VCKYCY1HB103K	J	0.01 50V Ceramic	AA
C860	VCCCCY1HH221J	J	220p 50V Ceramic	AA
C861	VCE9PF1CW106M	J	10 16V Elect.(N.P)	AC
C862	VCCCCY1HH820J	J	82p 50V Ceramic	AA
C863	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C864	VCE9PF1HW105M	J	1.0 50V Elect.(N.P)	AC
C865	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C866	VCEAPF0JW476M	J	47 6.3V Electrolytic	AB
C867	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C868	VCKYCY1HB103K	J	0.01 50V Ceramic	AA
C869	VCKYCY1CF224Z	J	0.22 16V Ceramic	AA
C870	VCCCCY1HH101J	J	100p 50V Ceramic	AA
C871	VCKYCY1HB103K	J	0.01 50V Ceramic	AA
C872	VCEAPF1CW106M	J	10 16V Electrolytic	AB
C873	VCFYEC1CM274J	J	0.27 16V Mylar	AE
C877	VCEAPF1CW106M	J	10 16V Electrolytic	AB
C878	VCKYCY1CF104Z	J	0.1 16V Ceramic	AA
C879	VCEAPF1CW106M	J	10 16V Electrolytic	AB
C880	VCE9PF1CW106M	J	10 16V Elect.(N.P)	AC
C881	VCKYCY1CF104Z	J	0.1 16V Ceramic	AA
C882	VCKYCY1CF104Z	J	0.1 16V Ceramic	AA
C883	VCKYCY1CF104Z	J	0.1 16V Ceramic	AA
C885	VCCCCY1HH470J	J	47p 50V Ceramic	AA
C891	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C892	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C893	VCEAPF1HW225M	J	2.2 50V Electrolytic	AB
C903	VCKYCY1CF104Z	J	0.1 16V Ceramic	AA
C904	VCCCCY1HH120J	J	12p 50V Ceramic	AA
C905	VCCCCY1HH360J	J	36p 50V Ceramic	AA
C906	VCEAPF1HW105M	J	1.0 50V Electrolytic	AB
C907	VCKYCY1CF104Z	J	0.1 16V Ceramic	AA
C908	VCKYCY1HB103K	J	0.01 50V Ceramic	AA
C909	VCKYCY1HB103K	J	0.01 50V Ceramic	AA
C910	VCCCCY1HH181J	J	180p 50V Ceramic	AA
C911	VCKYCY1CF104Z	J	0.1 16V Ceramic	AA
C912	VCKYCY1CF104Z	J	0.1 16V Ceramic	AA
C913	VCKYCY1CF104Z	J	0.1 16V Ceramic	AA
C914	VCKYCY1CF104Z	J	0.1 16V Ceramic	AA
C915	VCKYCY1CF104Z	J	0.1 16V Ceramic	AA
C916	VCKYCY1CF104Z	J	0.1 16V Ceramic	AA
C917	VCKYCY1CF104Z	J	0.1 16V Ceramic	AA
C918	VCKYCY1CF104Z	J	0.1 16V Ceramic	AA
C919	VCKYCY1CF104Z	J	0.1 16V Ceramic	AA

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Ref. No.	Part No.	★	Description			Code
C920	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C921	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C922	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C923	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C924	RC-EZ0569CEZZ	J	10	10V	Electrolitic	AF
C925	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C926	VCCCCY1HH220J	J	22p	50V	Ceramic	AA
C927	VCCCCY1HH5R0C	J	5.0p	50V	Ceramic	AA
C930	VCCCCY1HH330J	J	33p	50V	Ceramic	AA
C931	VCCCCY1HH470J	J	47p	50V	Ceramic	AA
C932	VCKYCY1AF105Z	J	1.0	10V	Ceramic	AC
C933	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C934	VCE9PF1CW106M	J	10	16V	Elect.(N.P)	AC
C935	VCCCCY1HH390J	J	39p	50V	Ceramic	AA
C936	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C937	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C938	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C939	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C945	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C946	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C948	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C949	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C950	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C951	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C954	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C957	VCEAPF0JW476M	J	47	6.3V	Electrolytic	AB
C958	VCEAPF0JW476M	J	47	6.3V	Electrolytic	AB
C959	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C960	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C962	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C963	VCEAPF1CW226M	J	22	16V	Electrolytic	AB
C964	VCFYEC1CM104J	J	0.1	16V	Mylar	AD
C965	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C966	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C967	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C968	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C970	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C973	VCCCCY1HH101J	J	100p	50V	Ceramic	AA
C1009	RC-EZ0569CEZZ	J	10	10V	Electrolitic	AF

RESISTORS

R410	VRS-CY1JF273J	J	27k	1/16W	Metal Oxide	AA
R411	VRS-CY1JF471J	J	470	1/16W	Metal Oxide	AA
R412	VRS-CY1JF822J	J	8.2k	1/16W	Metal Oxide	AA
R413	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R414	VRS-CY1JF100J	J	10	1/16W	Metal Oxide	AA
R415	VRS-CY1JF151J	J	150	1/16W	Metal Oxide	AA
R416	VRS-CY1JF562J	J	5.6k	1/16W	Metal Oxide	AA
R417	VRS-CY1JF331J	J	330	1/16W	Metal Oxide	AA
R418	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R419	VRS-CY1JF471J	J	470	1/16W	Metal Oxide	AA
R438	VRS-CY1JF474J	J	470k	1/16W	Metal Oxide	AA
R439	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R440	VRS-CY1JF331J	J	330	1/16W	Metal Oxide	AA
R460	VRS-CY1JF331J	J	330	1/16W	Metal Oxide	AA
R472	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R477	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R478	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R479	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R480	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R481	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R482	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R496	VRS-CY1JF361J	J	360	1/16W	Metal Oxide	AA
R497	VRS-CY1JF332F	J	3.3k	1/16W	Metal Oxide	AA
R503	VRS-CY1JF392F	J	3.9k	1/16W	Metal Oxide	AA
R505	VRS-CY1JF361J	J	360	1/16W	Metal Oxide	AA
R584	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R603	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R604	VRS-CY1JF562J	J	5.6k	1/16W	Metal Oxide	AA
R605	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R608	VRS-CY1JF152J	J	1.5k	1/16W	Metal Oxide	AA

Ref. No.	Part No.	★	Description			Code
R611	VRN-CY1JF133D	J	13k	1/16W	Metal Film	AB
R613	VRN-CY1JF752D	J	7.5k	1/16W	Metal Film	AA
R614	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R615	VRS-CY1JF182J	J	1.8k	1/16W	Metal Oxide	AA
R616	VRN-CY1JF682D	J	6.8k	1/16W	Metal Film	AB
R617	VRN-CY1JF103D	J	10k	1/16W	Metal Film	AA
R619	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R621	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R622	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R623	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R624	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R650	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R657	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R699	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R806	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R807	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R808	VRS-CY1JF561J	J	560	1/16W	Metal Oxide	AA
R811	VRS-CY1JF681J	J	680	1/16W	Metal Oxide	AA
R812	VRS-CY1JF183J	J	18k	1/16W	Metal Oxide	AA
R815	VRS-TX2HF5R6J	J	5.6	1/2W	Metal Oxide	AA
R816	VRS-CY1JF104J	J	100k	1/16W	Metal Oxide	AA
R817	VRS-TX2HF4R7J	J	4.7	1/2W	Metal Oxide	AB
R819	VRS-CY1JF392J	J	3.9k	1/16W	Metal Oxide	AA
R820	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R821	VRS-CY1JF473J	J	47k	1/16W	Metal Oxide	AA
R832	VRS-TX2HF4R7J	J	4.7	1/2W	Metal Oxide	AB
R835	VRS-CY1JF393J	J	39k	1/16W	Metal Oxide	AA
R837	VRS-CY1JF564J	J	560k	1/16W	Metal Oxide	AA
R838	VRS-CY1JF333J	J	33k	1/16W	Metal Oxide	AA
R839	VRS-CY1JF104J	J	100k	1/16W	Metal Oxide	AA
R840	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R841	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R842	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R843	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R844	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R845	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R846	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R848	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R849	VRS-CY1JF472J	J	4.7k	1/16W	Metal Oxide	AA
R850	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R851	VRS-CY1JF822J	J	8.2k	1/16W	Metal Oxide	AA
R852	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R853	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R855	VRS-CY1JF221J	J	220	1/16W	Metal Oxide	AA
R856	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R857	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R858	VRS-CY1JF222J	J	2.2k	1/16W	Metal Oxide	AA
R859	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R860	VRS-CY1JF822J	J	8.2k	1/16W	Metal Oxide	AA
R861	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R862	VRS-CY1JF472J	J	4.7k	1/16W	Metal Oxide	AA
R863	VRS-CY1JF473J	J	47k	1/16W	Metal Oxide	AA
R865	VRS-CY1JF682J	J	6.8k	1/16W	Metal Oxide	AA
R866	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R867	VRS-CY1JF183J	J	18k	1/16W	Metal Oxide	AA
R869	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R870	VRS-CY1JF682J	J	6.8k	1/16W	Metal Oxide	AA
R871	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R872	VRS-CY1JF472J	J	4.7k	1/16W	Metal Oxide	AA
R873	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R874	VRS-CY1JF683J	J	68k	1/16W	Metal Oxide	AA
R875	VRS-CY1JF224J	J	220k	1/16W	Metal Oxide	AA
R876	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R877	VRS-CY1JF472J	J	4.7k	1/16W	Metal Oxide	AA
R878	VRS-CY1JF682J	J	6.8k	1/16W	Metal Oxide	AA
R879	VRS-CY1JF332J	J	3.3k	1/16W	Metal Oxide	AA
R880	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R891	VRS-CY1JF682J	J	6.8k	1/16W	Metal Oxide	AA
R892	VRS-CY1JF273J	J	27k	1/16W	Metal Oxide	AA
R893	VRS-CY1JF392J	J	3.9k	1/16W	Metal Oxide	AA
R894	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R895	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R898	VRS-CY1JF333J	J	33k	1/16W	Metal Oxide	AA
R901	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R902	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R903	VRS-CY1JF821J	J	820	1/16W	Metal Oxide	AA

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Ref. No.	Part No.	★	Description			Code
R905	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R906	VRS-TV1JD122J	J	1.2k	1/16W	Metal Oxide	AA
R907	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R908	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R909	VRN-CY1JF102D	J	1.0k	1/16W	Metal Film	AB
R910	VRS-TV1JD122J	J	1.2k	1/16W	Metal Oxide	AA
R911	VRS-TV1JD471J	J	470	1/16W	Metal Oxide	AA
R912	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R913	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R914	VRS-CY1JF821J	J	820	1/16W	Metal Oxide	AA
R915	VRN-CY1JF332D	J	3.3k	1/16W	Metal Film	AA
R916	VRN-CY1JF332D	J	3.3k	1/16W	Metal Film	AA
R917	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R918	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R919	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R920	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R922	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R923	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R924	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R925	VRS-TV1JD222J	J	2.2k	1/16W	Metal Oxide	AA
R926	VRS-CY1JF823J	J	82k	1/16W	Metal Oxide	AA
R927	VRS-CY1JF473J	J	47k	1/16W	Metal Oxide	AA
R928	VRS-CY1JF471J	J	470	1/16W	Metal Oxide	AA
R929	VRS-CY1JF561J	J	560	1/16W	Metal Oxide	AA
R930	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R931	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R932	VRS-CY1JF152J	J	1.5k	1/16W	Metal Oxide	AA
R933	VRS-CY1JF681J	J	680	1/16W	Metal Oxide	AA
R934	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R935	VRS-CY1JF273J	J	27k	1/16W	Metal Oxide	AA
R936	VRS-TX2HF5R6J	J	5.6	1/2W	Metal Oxide	AA
R937	VRS-CY1JF273J	J	27k	1/16W	Metal Oxide	AA
R938	VRS-CY1JF471J	J	470	1/16W	Metal Oxide	AA
R939	VRS-CY1JF822J	J	8.2k	1/16W	Metal Oxide	AA
R940	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R941	VRS-CY1JF331J	J	330	1/16W	Metal Oxide	AA
R942	VRS-CY1JF750J	J	75	1/16W	Metal Oxide	AA
R943	VRS-CY1JF471J	J	470	1/16W	Metal Oxide	AA
R944	VRS-CY1JF562J	J	5.6k	1/16W	Metal Oxide	AA
R945	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R953	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R954	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R955	VRS-CY1JF471J	J	470	1/16W	Metal Oxide	AA
R956	VRS-CY1JF681J	J	680	1/16W	Metal Oxide	AA
R957	VRS-CY1JF154J	J	150k	1/16W	Metal Oxide	AA
R958	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R959	VRS-TV1JD222J	J	2.2k	1/16W	Metal Oxide	AA
R964	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R975	VRS-TX2HF5R6J	J	5.6	1/2W	Metal Oxide	AA
R976	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R980	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R981	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R982	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R983	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R990	VRS-CY1JF104J	J	100k	1/16W	Metal Oxide	AA
R991	VRS-CY1JF104J	J	100k	1/16W	Metal Oxide	AA
R999	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R1005	VRS-TX2HF5R6J	J	5.6	1/2W	Metal Oxide	AA
R1006	VRS-TX2HF5R6J	J	5.6	1/2W	Metal Oxide	AA
R1007	VRN-CY1JF562D	J	5.6k	1/16W	Metal Film	AB
R1008	VRN-CY1JF102D	J	1.0k	1/16W	Metal Film	AB
R1009	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R1801	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R1802	VRS-CY1JF333J	J	33k	1/16W	Metal Oxide	AA
R1803	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R1804	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R1805	VRS-CY1JF102F	J	1.0k	1/16W	Metal Oxide	AA
R1806	VRS-CY1JF102F	J	1.0k	1/16W	Metal Oxide	AA
R1807	VRS-CY1JF122J	J	1.2k	1/16W	Metal Oxide	AA
R1808	VRS-CY1JF821J	J	820	1/16W	Metal Oxide	AA
R1809	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R1810	VRS-CY1JF122J	J	1.2k	1/16W	Metal Oxide	AA
R1811	VRS-CY1JF122J	J	1.2k	1/16W	Metal Oxide	AA
R1812	VRS-CY1JF104J	J	100k	1/16W	Metal Oxide	AA
R1813	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1819	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R1820	VRS-CY1JF152J	J	1.5k	1/16W	Metal Oxide	AA
R1822	VRS-CY1JF822J	J	8.2k	1/16W	Metal Oxide	AA
R1823	VRS-CY1JF332J	J	3.3k	1/16W	Metal Oxide	AA
R1825	VRS-CY1JF391J	J	390	1/16W	Metal Oxide	AA
R1826	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA

MISCELLANEOUS PARTS

FB401	RBLN-0065CEZZ	J	Ferrite Bead	AB
FB402	RBLN-0065CEZZ	J	Ferrite Bead	AB
FB901	RBLN-0065CEZZ	J	Ferrite Bead	AB
FB902	RBLN-0065CEZZ	J	Ferrite Bead	AB
FB903	RBLN-0065CEZZ	J	Ferrite Bead	AB
FB904	RBLN-0065CEZZ	J	Ferrite Bead	AB
P401	QPLGZ3044CEZZ	J	Plug 30-Pin (TN)	AH
P402	QPLGZ3044CEZZ	J	Plug 30-Pin (VS)	AH
P801	QPLGN0463TAZZ	J	Plug 4-Pin	AC
P1501	QPLGZ2026CEZZ	J	Plug 20-Pin	AE
P1502	QPLGZ2026CEZZ	J	Plug 20-Pin	AE

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OUTPUT UNIT

INTEGRATED CIRCUITS

Ref. No.	Part No.	★	Description	Code
IC1004	RH-iX2204CEZZ	J	PQ12TZ11	AG
IC1101	VHiCXA2112R-1	J	CXA2112R-T6	BB
IC1102	VHiCXA2112R-1	J	CXA2112R-T6	BB
IC1103	RH-iX1531CEZZ	J	TC74HC4053AF	AF
IC1104	VHiNJM2904V-1	J	NJM2904V	AF
IC1105	VHiLM318M//-1	J	LM318M	AK
IC1201	VHiCXA2112R-1	J	CXA2112R-T6	BB
IC1202	VHiCXA2112R-1	J	CXA2112R-T6	BB
IC1203	VHiAD8013AR-1	J	AD8013AR-14	AV
IC1204	VHiNJM2902V-1	J	NJM2902V	AD
IC1301	VHiCXA2112R-1	J	CXA2112R-T6	BB
IC1302	VHiCXA2112R-1	J	CXA2112R-T6	BB
IC1305	VHiNJ7211U2-1	J	NJU7211U20	AG
IC1401	VHiCXA2111R-1	J	CXA2111R	BB
IC1402	VHiTHC221AF-1	J	TC74HC221AF	AG
IC1403	VHiNJM2060V-1	J	NJM2060V	AF
IC1404	VHiM62352GP-1	J	M62352GP	AQ
IC1406	VHiHCT541AF-1	J	TC74HCT541AF	AG
IC1407	RH-iX1952CEZZ	J	74F86SJ	AD
IC1408	VHiHCT541AF-1	J	TC74HCT541AF	AG
IC1409	VHiPQ20VZ11-1	J	PQ20VZ11	AH
IC1410	VHiPQ05TZ11-1	J	PQ05TZ11	AH
IC1411	VHiTA8184F/-1	J	TA8184F	AN
IC1412	VHiM62352GP-1	J	M62352GP	AQ
IC1501	VHiAD8013AR-1	J	AD8013AR-14	AV
IC1502	VHiNJM2902V-1	J	NJM2902V	AD
IC1503	VHiNJM431E/-1	J	NJM431E-TE1	AF
IC1504	VHiM40C568H-1	J	MB40C568HPFV-G	AQ
IC1505	VHiM40C568H-1	J	MB40C568HPFV-G	AQ
IC1506	VHiM40C568H-1	J	MB40C568HPFV-G	AQ
IC1507	VHiPQ05TZ11-1	J	PQ05TZ11	AH
IC1508	VHiT7WH241U-1	J	TC7WH241FU	AF
IC4201	VHiT7SET08U-1	J	TC7SET08FU	AE
IC4202	VHiTC4W53U/-1	J	TC4W53FU	AF
IC4203	VHiTC4W66U/-1	J	TC4W66FU	AF
IC4204	VHiNJM2060V-1	J	NJM2060V	AF
IC4206	VHiNJM2904V-1	J	NJM2904V	AF
IC4402	VHiTC4W53U/-1	J	TC4W53FU	AF
IC4403	VHiTC4W66U/-1	J	TC4W66FU	AF
IC4404	VHiNJM2060V-1	J	NJM2060V	AF
IC5003	VHiM62352GP-1	J	M62352GP	AQ
IC5004	VHiM62320FP-1	J	M62320FP	AK
IC5005	VHiM62320FP-1	J	M62320FP	AK
IC5006	VHiSNHC00T/-1	J	SN74Hc00PW	AG
IC5008	RH-iX2963CEZZ	J	X24645S8T2	AX
IC5009	VHiSNHC08T/-1	J	SN74HC08PW	AG
IC5021	VHiPQ20VZ11-1	J	PQ20VZ11	AH
IC5503	VHiPQ05SZ51-1	J	PQ05SZ51	AG
IC5504	VHiPQ20VZ11-1	J	PQ20VZ11	AH
IC5505	VHiPQ20VZ11-1	J	PQ20VZ11	AH
IC5506	RH-iX2296CEZZ	J	TC7S66F	AD
IC5507	VHiPQ20VZ11-1	J	PQ20VZ11	AH

TRANSITORS

Ref. No.	Part No.	★	Description	Code
Q1101	VS2SC2411KR-1	J	2SC2411KR	AC
Q1102	VS2SA1036KR-1	J	2SA1036KR	AC
Q1103	VS2SC2411KR-1	J	2SC2411KR	AC
Q1104	VS2SA1036KR-1	J	2SA1036KR	AC
Q1105	VS2SC2411KR-1	J	2SC2411KR	AC
Q1106	VS2SA1036KR-1	J	2SA1036KR	AC
Q1107	VS2SC2411KR-1	J	2SC2411KR	AC
Q1108	VS2SA1036KR-1	J	2SA1036KR	AC
Q1201	VS2SC2411KR-1	J	2SC2411KR	AC
Q1202	VS2SA1036KR-1	J	2SA1036KR	AC
Q1203	VS2SC2411KR-1	J	2SC2411KR	AC
Q1204	VS2SA1036KR-1	J	2SA1036KR	AC
Q1205	VS2SC2411KR-1	J	2SC2411KR	AC
Q1206	VS2SA1036KR-1	J	2SA1036KR	AC
Q1207	VS2SC2411KR-1	J	2SC2411KR	AC
Q1208	VS2SA1036KR-1	J	2SA1036KR	AC
Q1301	VS2SC2411KR-1	J	2SC2411KR	AC
Q1302	VS2SA1036KR-1	J	2SA1036KR	AC
Q1303	VS2SC2411KR-1	J	2SC2411KR	AC
Q1304	VS2SA1036KR-1	J	2SA1036KR	AC
Q1305	VS2SC2411KR-1	J	2SC2411KR	AC
Q1306	VS2SA1036KR-1	J	2SA1036KR	AC
Q1307	VS2SC2411KR-1	J	2SC2411KR	AC
Q1308	VS2SA1036KR-1	J	2SA1036KR	AC
Q1401	VS2SC2735//-1	J	2SC2735	AB
Q1402	VS2SC2735//-1	J	2SC2735	AB
Q1403	VS2SC2735//-1	J	2SC2735	AB
Q1501	VS2SC2735//-1	J	2SC2735	AB
Q1502	VS2SC2735//-1	J	2SC2735	AB
Q1503	VS2SC2735//-1	J	2SC2735	AB
Q1504	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q1505	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q1506	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q1507	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q1508	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q1510	VS2PD601AR/-1	J	2PD601AR	AB
Q1511	VS2PB709AR/-1	J	2PB709AR	AB
Q1512	VS2SD1664R/-1	J	2SD1664R	AC
Q1601	VS2PD601AR/-1	J	2PD601AR	AB
Q1602	VS2PD601AR/-1	J	2PD601AR	AB
Q1603	VS2PD601AR/-1	J	2PD601AR	AB
Q1604	VS2PD601AR/-1	J	2PD601AR	AB
Q1605	VSDTC144EU/-1	J	DTC144EU	AB
Q1606	VSDTC144EU/-1	J	DTC144EU	AB
Q1607	VSDTC144EU/-1	J	DTC144EU	AB
Q1608	VSDTC144EU/-1	J	DTC144EU	AB
Q1609	VSDTC144EU/-1	J	DTC144EU	AB
Q1610	VSDTC144EU/-1	J	DTC144EU	AB
Q1611	VSDTC144EU/-1	J	DTC144EU	AB
Q1612	VSDTC144EU/-1	J	DTC144EU	AB
Q1613	VSDTC144EU/-1	J	DTC144EU	AB
Q1614	VSDTC144EU/-1	J	DTC144EU	AB
Q1615	VSDTC144EU/-1	J	DTC144EU	AB
Q1616	VSDTC144EU/-1	J	DTC144EU	AB
Q1617	VSDTC144EU/-1	J	DTC144EU	AB
Q1618	VSDTC144EU/-1	J	DTC144EU	AB
Q4204	VS2PD601AR/-1	J	2PD601AR	AB
Q4205	VS2PD601AR/-1	J	2PD601AR	AB
Q4207	VS2PD601AR/-1	J	2PD601AR	AB
Q4208	VS2PD601AR/-1	J	2PD601AR	AB
Q4401	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q4402	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q4403	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q4406	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q5002	VS2PD601AR/-1	J	2PD601AR	AB
Q5003	VS2PD601AR/-1	J	2PD601AR	AB
Q5004	VS2PD601AR/-1	J	2PD601AR	AB
Q5005	VS2PD601AR/-1	J	2PD601AR	AB
Q5006	VS2PB709AR/-1	J	2PB709AR	AB
Q5007	VS2PD601AR/-1	J	2PD601AR	AB
Q5501	VS2SD1664R/-1	J	2SD1664R	AC
Q5502	VS2SD1664R/-1	J	2SD1664R	AC
Q5514	VS2PD601AR/-1	J	2PD601AR	AB
Q5516	VS2PD601AR/-1	J	2PD601AR	AB
Q5518	VS2PD601AR/-1	J	2PD601AR	AB
Q5526	VSDTC114EU/-1	J	DTC114EU	AB
Q5534	VSDTC114EU/-1	J	DTC114EU	AB
Q5536	VS2PD601AR/-1	J	2PD601AR	AB

DIODES

Ref. No.	Part No.	★	Description	Code
D1003	VHDDAN202K/-1	J	Diode DAN202K	AB
D1401	VHDDAN202K/-1	J	Diode DAN202K	AB
D1402	VHDDAN202K/-1	J	Diode DAN202K	AB
D1501	VHDDAN202K/-1	J	Diode DAN202K	AB
D1502	VHDDAN202K/-1	J	Diode DAN202K	AB
D5001	VHDHRW0702A-1	J	Diode HRW0702A	AE
D5002	VHDHRW0702A-1	J	Diode HRW0702A	AE
D5003	VHDHRW0702A-1	J	Diode HRW0702A	AE
D5004	VHDHRW0702A-1	J	Diode HRW0702A	AE
D5005	VHDMA153///-1	J	Diode MA153	AB
D5006	VHDMA153///-1	J	Diode MA153	AB
D5007	VHDMA153///-1	J	Diode MA153	AB
D5008	VHDMA153///-1	J	Diode MA153	AB

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Ref. No.	Part No.	★	Description	Code
D5009	VHDHRW0702A-1	J	Diode HRW0702A	AE
D5010	VHDHRW0702A-1	J	Diode HRW0702A	AE
D5011	VHDHRW0702A-1	J	Diode HRW0702A	AE
D5012	VHDHRW0702A-1	J	Diode HRW0702A	AE
D5013	VHDMA153///-1	J	Diode MA153	AB
D5014	VHDMA153///-1	J	Diode MA153	AB
D5015	VHDMA153///-1	J	Diode MA153	AB
D5016	VHDMA153///-1	J	Diode MA153	AB
D5017	VHDHRW0702A-1	J	Diode HRW0702A	AE
D5018	VHDMA153///-1	J	Diode MA153	AB
D5023	VHDDAN202K/-1	J	Diode DAN202K	AB
D5024	RH-EX0858CEZZ	J	Zener Diode	AC
D5503	VHDDAN202K/-1	J	Diode DAN202K	AB
D5504	VHDDAN202K/-1	J	Diode DAN202K	AB
D5505	VHDDAN202K/-1	J	Diode DAN202K	AB
D5509	RH-EX0540CEZZ	J	Zener Diode	AB
D5513	VHDDAN202K/-1	J	Diode DAN202K	AB
D5514	RH-EX0228CEZZ	J	Zener Diode	AB
D5520	VHDDAN202K/-1	J	Diode DAN202K	AB

COILS

L1101	VP-1M100J1R6N	J	Peaking 10µH	AC
L1201	VP-1M100J1R6N	J	Peaking 10µH	AC
L1301	VP-1M100J1R6N	J	Peaking 10µH	AC

CONTROLS

R1649	RVR-M4565CEZZ	J	470k (B)	AC
R1652	RVR-M7906TAZZ	J	68k (B)	AC
R4215	RVR-M7904TAZZ	J	33k (B)	AC
R4415	RVR-M7904TAZZ	J	33k (B)	AC

CAPACITORS

[MLFT···Multi Layer Film Tip]

C1010	VCEAPF1EW336M	J	33	25V	Electrolytic	AB
C1013	VCEAPF1CW107M	J	100	16V	Electrolytic	AD
C1038	VCEAPF1CW107M	J	100	16V	Electrolytic	AD
C1039	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1040	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1041	VCEAPF1CW226M	J	22	16V	Electrolytic	AB
C1101	RC-KZ0416CEZZ	J	10	25V	Ceramic	AE
C1102	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1103	RC-KZ0416CEZZ	J	10	25V	Ceramic	AE
C1104	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1105	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1106	RC-KZ0416CEZZ	J	10	25V	Ceramic	AE
C1107	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1108	RC-KZ0416CEZZ	J	10	25V	Ceramic	AE
C1109	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1110	RC-KZ0416CEZZ	J	10	25V	Ceramic	AE
C1111	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1112	RC-KZ0416CEZZ	J	10	25V	Ceramic	AE
C1113	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1114	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1115	RC-KZ0416CEZZ	J	10	25V	Ceramic	AE
C1116	VCCCCY1HH5R0C	J	5.0p	50V	Ceramic	AA
C1117	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1118	RC-KZ0416CEZZ	J	10	25V	Ceramic	AE
C1119	RC-KZ0416CEZZ	J	10	25V	Ceramic	AE
C1120	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1121	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1122	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C1125	VCKYCY1HB222K	J	2200p	50V	Ceramic	AA
C1126	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1127	RC-KZ0416CEZZ	J	10	25V	Ceramic	AE
C1128	RC-KZ0416CEZZ	J	10	25V	Ceramic	AE
C1201	RC-KZ0416CEZZ	J	10	25V	Ceramic	AE
C1202	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1203	RC-KZ0416CEZZ	J	10	25V	Ceramic	AE
C1204	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1205	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1206	RC-KZ0416CEZZ	J	10	25V	Ceramic	AE
C1207	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1208	RC-KZ0416CEZZ	J	10	25V	Ceramic	AE
C1209	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1210	RC-KZ0416CEZZ	J	10	25V	Ceramic	AE
C1211	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1212	RC-KZ0416CEZZ	J	10	25V	Ceramic	AE
C1213	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1214	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1215	RC-KZ0416CEZZ	J	10	25V	Ceramic	AE
C1216	VCCCCY1HH5R0C	J	5.0p	50V	Ceramic	AA
C1217	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1219	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1225	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1226	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1227	RC-KZ0416CEZZ	J	10	25V	Ceramic	AE
C1228	RC-KZ0416CEZZ	J	10	25V	Ceramic	AE
C1229	VCCCCY1HH221J	J	220p	50V	Ceramic	AA
C1301	RC-KZ0416CEZZ	J	10	25V	Ceramic	AE
C1302	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1303	RC-KZ0416CEZZ	J	10	25V	Ceramic	AE
C1304	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1305	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1306	RC-KZ0416CEZZ	J	10	25V	Ceramic	AE
C1307	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1308	RC-KZ0416CEZZ	J	10	25V	Ceramic	AE
C1309	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1310	RC-KZ0416CEZZ	J	10	25V	Ceramic	AE
C1311	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1312	RC-KZ0416CEZZ	J	10	25V	Ceramic	AE
C1313	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1314	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1315	RC-KZ0416CEZZ	J	10	25V	Ceramic	AE
C1316	VCCCCY1HH5R0C	J	5.0p	50V	Ceramic	AA
C1325	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1326	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1327	RC-KZ0416CEZZ	J	10	25V	Ceramic	AE
C1328	RC-KZ0416CEZZ	J	10	25V	Ceramic	AE
C1340	VCCCCY1HH471J	J	470p	50V	Ceramic	AA
C1401	RC-KZ0416CEZZ	J	10	25V	Ceramic	AE
C1402	RC-KZ0416CEZZ	J	10	25V	Ceramic	AE
C1403	RC-KZ0416CEZZ	J	10	25V	Ceramic	AE
C1404	RC-KZ0416CEZZ	J	10	25V	Ceramic	AE
C1405	RC-KZ0416CEZZ	J	10	25V	Ceramic	AE
C1406	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1407	VCCCCY1HH100D	J	10p	50V	Ceramic	AA
C1408	VCCCCY1HH100D	J	10p	50V	Ceramic	AA
C1409	VCCCCY1HH100D	J	10p	50V	Ceramic	AA
C1410	VCCCCY1HH100D	J	10p	50V	Ceramic	AA
C1411	VCCCCY1HH100D	J	10p	50V	Ceramic	AA
C1412	VCCCCY1HH100D	J	10p	50V	Ceramic	AA
C1413	VCCCCY1HH100D	J	10p	50V	Ceramic	AA
C1414	VCCCCY1HH100D	J	10p	50V	Ceramic	AA
C1415	VCCCCY1HH100D	J	10p	50V	Ceramic	AA
C1420	RC-KZ0416CEZZ	J	10	25V	Ceramic	AE
C1421	RC-KZ0416CEZZ	J	10	25V	Ceramic	AE
C1422	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1423	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1424	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1425	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1426	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1427	VCCCCY1HH101J	J	100p	50V	Ceramic	AA
C1429	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1430	RC-KZ0416CEZZ	J	10	25V	Ceramic	AE
C1432	RC-KZ0416CEZZ	J	10	25V	Ceramic	AE
C1433	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1434	VCEAPF1EW226M	J	22	25V	Electrolytic	AB
C1435	VCEAPF1EW226M	J	22	25V	Electrolytic	AB
C1436	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C1437	VCEAPF0JW107M	J	100	6.3V	Electrolytic	AC
C1438	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1451	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1453	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1460	VCKYCY1HB102K	J	1000p	50V	Ceramic	AA
C1461	VCEAPF1CW476M	J	47	16V	Electrolytic	AC
C1462	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1463	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA

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Ref. No.	Part No.	★	Description			Code
C1464	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1465	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1466	VCKYTV1CF105Z	J	1.0	16V	Ceramic	AB
C1467	VCKYTV1CF105Z	J	1.0	16V	Ceramic	AB
C1468	VCFRED1HM822J	J	8200p	50V	MLFT	AD
C1469	VCFYEC1CM334J	J	0.33	16V	MLFT	AE
C1470	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C1471	VCKYCY1CF154Z	J	0.15	16V	Ceramic	AB
C1472	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1473	VCE9PF1CW106M	J	10	16V	Elect.(N.P)	AC
C1474	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C1475	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1476	VCEAPF1CW107M	J	100	16V	Electrolytic	AD
C1477	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1478	VCEAPF1CW107M	J	100	16V	Electrolytic	AD
C1479	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1480	VCEAPF1CW107M	J	100	16V	Electrolytic	AD
C1481	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1482	VCEAPF1CW107M	J	100	16V	Electrolytic	AD
C1483	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1484	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C1501	RC-KZ0416CEZZ	J	10	25V	Ceramic	AE
C1502	RC-KZ0416CEZZ	J	10	25V	Ceramic	AE
C1503	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C1504	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C1505	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C1506	RC-KZ0416CEZZ	J	10	25V	Ceramic	AE
C1507	RC-KZ0416CEZZ	J	10	25V	Ceramic	AE
C1508	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1509	RC-KZ0416CEZZ	J	10	25V	Ceramic	AE
C1510	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1511	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1512	RC-KZ0416CEZZ	J	10	25V	Ceramic	AE
C1514	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1515	RC-KZ0416CEZZ	J	10	25V	Ceramic	AE
C1516	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1517	RC-KZ0416CEZZ	J	10	25V	Ceramic	AE
C1518	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1519	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1520	RC-KZ0416CEZZ	J	10	25V	Ceramic	AE
C1522	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1523	RC-KZ0416CEZZ	J	10	25V	Ceramic	AE
C1524	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1525	RC-KZ0416CEZZ	J	10	25V	Ceramic	AE
C1526	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1527	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1528	RC-KZ0416CEZZ	J	10	25V	Ceramic	AE
C1530	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1531	RC-KZ0416CEZZ	J	10	25V	Ceramic	AE
C1532	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1533	RC-KZ0416CEZZ	J	10	25V	Ceramic	AE
C1534	RC-KZ0416CEZZ	J	10	25V	Ceramic	AE
C1535	RC-KZ0416CEZZ	J	10	25V	Ceramic	AE
C1540	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C1541	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1542	VCEAPF0JW107M	J	100	6.3V	Electrolytic	AC
C1543	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C4201	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C4203	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C4204	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C4205	RC-KZ0416CEZZ	J	10	25V	Ceramic	AE
C4206	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C4210	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C4213	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C4214	VCCCCY1EH102J	J	1000p	25V	Ceramic	AB
C4215	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C4216	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C4217	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C4218	RC-KZ0416CEZZ	J	10	25V	Ceramic	AE
C4220	VCCCCY1HH331J	J	330p	50V	Ceramic	AA
C4221	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C4222	RC-KZ0416CEZZ	J	10	25V	Ceramic	AE

Ref. No.	Part No.	★	Description			Code
C4402	VCEAPH1CW106M	J	10	16V	Electrolytic	AB
C4410	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C4413	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C4414	VCCCCY1EH102J	J	1000p	25V	Ceramic	AB
C4415	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C4416	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C4417	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C4418	VCEAPH1EW475M	J	4.7	25V	Electrolytic	AB
C4419	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C4421	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C4422	VCEAPH1CW106M	J	10	16V	Electrolytic	AB
C5001	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C5007	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C5012	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C5015	VCCCCY1HH101J	J	100p	50V	Ceramic	AA
C5016	VCCCCY1HH101J	J	100p	50V	Ceramic	AA
C5017	VCCCCY1HH101J	J	100p	50V	Ceramic	AA
C5033	VCEAPF0JW476M	J	47	6.3V	Electrolytic	AB
C5041	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C5045	VCEAPF0JW107M	J	100	6.3V	Electrolytic	AC
C5046	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C5056	VCEAPF0JW476M	J	47	6.3V	Electrolytic	AB
C5057	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C5060	VCEAPF1HW105M	J	1.0	50V	Electrolytic	AB
C5063	VCEAPF1CW107M	J	100	16V	Electrolytic	AD
C5064	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C5065	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C5164	VCCCCY1HH221J	J	220p	50V	Ceramic	AA
C5165	VCKYCY1HB102K	J	1000p	50V	Ceramic	AA
C5167	VCKYCY1HB102K	J	1000p	50V	Ceramic	AA
C5170	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C5171	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C5174	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C5507	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C5508	VCEAPF1CW476M	J	47	16V	Electrolytic	AC
C5509	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C5510	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C5511	VCEAPF1EW336M	J	33	25V	Electrolytic	AB
C5512	VCEAPF1CW107M	J	100	16V	Electrolytic	AD
C5513	VCEAPF0JW107M	J	100	6.3V	Electrolytic	AC
C5514	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C5515	VCEAPF1CW107M	J	100	16V	Electrolytic	AD
C5516	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C5525	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C5534	VCEAPF1CW226M	J	22	16V	Electrolytic	AB
C5535	VCEAPF1CW226M	J	22	16V	Electrolytic	AB
C5551	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C5553	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C5554	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C5555	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C5556	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C5562	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C5564	VCEAPF1CW226M	J	22	16V	Electrolytic	AB
C5565	VCEAPF1EW336M	J	33	25V	Electrolytic	AB
C5566	VCEAPF1CW107M	J	100	16V	Electrolytic	AD
C5567	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA

RESISTORS

R1003	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R1015	VRS-TX2HF000J	J	0	1/2W	Metal Oxide	AA
R1016	VRS-TX2HF000J	J	0	1/2W	Metal Oxide	AA
R1018	QFS-L5015CEZZ	J	Fuse Resistor			AD
R1033	VRS-CY1JF473J	J	47k	1/16W	Metal Oxide	AA
R1049	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R1050	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1051	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1052	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1053	VRS-CY1JF820J	J	82	1/16W	Metal Oxide	AA
R1054	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1055	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R1056	VRS-CY1JF271J	J	270	1/16W	Metal Oxide	AA
R1057	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R1059	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R1061	VRS-CY1JF332J	J	3.3k	1/16W	Metal Oxide	AA
R1062	VRS-CY1JF333J	J	33k	1/16W	Metal Oxide	AA

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Ref. No.	Part No.	★	Description	Code
R1065	VRS-CY1JF153J	J	15k 1/16W Metal Oxide	AA
R1066	VRS-CY1JF682J	J	6.8k 1/16W Metal Oxide	AA
R1067	VRS-CY1JF472J	J	4.7k 1/16W Metal Oxide	AA
R1068	VRS-CY1JF202J	J	2.0k 1/16W Metal Oxide	AA
R1069	VRS-CY1JF751J	J	750 1/16W Metal Oxide	AA
R1070	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R1071	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R1072	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R1073	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R1074	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R1075	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R1076	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R1077	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R1078	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R1079	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R1080	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R1081	VRS-CY1JF203J	J	20k 1/16W Metal Oxide	AA
R1082	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R1083	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R1084	VRS-CY1JF203J	J	20k 1/16W Metal Oxide	AA
R1085	VRS-CY1JF153J	J	15k 1/16W Metal Oxide	AA
R1086	VRS-CY1JF682J	J	6.8k 1/16W Metal Oxide	AA
R1087	VRS-CY1JF472J	J	4.7k 1/16W Metal Oxide	AA
R1088	VRS-CY1JF472J	J	4.7k 1/16W Metal Oxide	AA
R1089	VRS-CY1JF682J	J	6.8k 1/16W Metal Oxide	AA
R1090	VRS-CY1JF153J	J	15k 1/16W Metal Oxide	AA
R1093	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R1094	VRS-CY1JF203J	J	20k 1/16W Metal Oxide	AA
R1095	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R1096	VRS-CY1JF391J	J	390 1/16W Metal Oxide	AA
R1102	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1103	VRS-CY1JF273F	J	27k 1/16W Metal Oxide	AA
R1104	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1105	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1106	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R1107	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1108	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1109	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R1110	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1111	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1112	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1113	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1114	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R1115	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1116	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1117	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1118	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1120	VRS-CY1JF332J	J	3.3k 1/16W Metal Oxide	AA
R1122	VRS-CY1JF332J	J	3.3k 1/16W Metal Oxide	AA
R1123	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R1124	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R1125	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1126	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1127	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1128	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1129	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1130	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1131	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R1132	VRS-CY1JF560J	J	56 1/16W Metal Oxide	AA
R1133	VRS-CY1JF560J	J	56 1/16W Metal Oxide	AA
R1134	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1135	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1136	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1137	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1138	VRS-CY1JF332J	J	3.3k 1/16W Metal Oxide	AA
R1139	VRS-CY1JF332J	J	3.3k 1/16W Metal Oxide	AA
R1140	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1141	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R1142	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R1143	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1144	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1145	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1146	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1147	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1148	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1149	VRS-CY1JF273F	J	27k 1/16W Metal Oxide	AA
R1150	VRS-CY1JF332J	J	3.3k 1/16W Metal Oxide	AA
R1153	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1154	VRS-CY1JF332J	J	3.3k 1/16W Metal Oxide	AA
R1155	VRS-CY1JF332J	J	3.3k 1/16W Metal Oxide	AA
R1156	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1157	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1158	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1159	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1160	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R1161	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1162	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1164	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R1165	VRS-CY1JF222J	J	2.2k 1/16W Metal Oxide	AA
R1166	VRS-CY1JF222J	J	2.2k 1/16W Metal Oxide	AA
R1167	VRS-CY1JF3R3J	J	3.3 1/16W Metal Oxide	AA
R1168	VRS-CY1JF3R3J	J	3.3 1/16W Metal Oxide	AA
R1169	VRS-CY1JF3R3J	J	3.3 1/16W Metal Oxide	AA
R1171	VRS-CY1JF222J	J	2.2k 1/16W Metal Oxide	AA
R1172	VRS-CY1JF222J	J	2.2k 1/16W Metal Oxide	AA
R1173	VRS-CY1JF3R3J	J	3.3 1/16W Metal Oxide	AA
R1174	VRS-CY1JF3R3J	J	3.3 1/16W Metal Oxide	AA
R1175	VRS-CY1JF3R3J	J	3.3 1/16W Metal Oxide	AA
R1176	VRS-CY1JF332J	J	3.3k 1/16W Metal Oxide	AA
R1178	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1179	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1180	VRS-CY1JF100J	J	10 1/16W Metal Oxide	AA
R1184	VRS-CY1JF100J	J	10 1/16W Metal Oxide	AA
R1185	VRS-CY1JF100J	J	10 1/16W Metal Oxide	AA
R1186	VRS-CY1JF100J	J	10 1/16W Metal Oxide	AA
R1187	VRS-CY1JF100J	J	10 1/16W Metal Oxide	AA
R1188	VRS-CY1JF100J	J	10 1/16W Metal Oxide	AA
R1189	VRS-CY1JF100J	J	10 1/16W Metal Oxide	AA
R1190	VRS-CY1JF100J	J	10 1/16W Metal Oxide	AA
R1191	VRS-CY1JF100J	J	10 1/16W Metal Oxide	AA
R1192	VRS-CY1JF100J	J	10 1/16W Metal Oxide	AA
R1193	VRS-CY1JF332J	J	3.3k 1/16W Metal Oxide	AA
R1194	VRS-CY1JF332J	J	3.3k 1/16W Metal Oxide	AA
R1195	VRS-CY1JF2R2J	J	2.2 1/16W Metal Oxide	AA
R1196	VRS-CY1JF2R2J	J	2.2 1/16W Metal Oxide	AA
R1201	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R1202	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1203	VRS-CY1JF273F	J	27k 1/16W Metal Oxide	AA
R1204	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1205	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1206	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R1207	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1208	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1209	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R1210	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1211	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1212	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1213	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1214	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R1215	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1216	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1217	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1218	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1220	VRS-CY1JF332J	J	3.3k 1/16W Metal Oxide	AA
R1222	VRS-CY1JF332J	J	3.3k 1/16W Metal Oxide	AA
R1223	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R1224	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R1225	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1226	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1227	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1228	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1229	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1230	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1231	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R1234	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1235	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA

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Ref. No.	Part No.	★		Description	Code
R1236	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R1237	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R1238	VRS-CY1JF332J	J	3.3k	1/16W Metal Oxide	AA
R1239	VRS-CY1JF332J	J	3.3k	1/16W Metal Oxide	AA
R1240	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R1241	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R1242	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R1243	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R1244	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R1245	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R1246	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R1247	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R1248	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R1249	VRS-CY1JF273F	J	27k	1/16W Metal Oxide	AA
R1250	VRS-CY1JF332J	J	3.3k	1/16W Metal Oxide	AA
R1253	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R1254	VRS-CY1JF332J	J	3.3k	1/16W Metal Oxide	AA
R1255	VRS-CY1JF332J	J	3.3k	1/16W Metal Oxide	AA
R1256	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R1257	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R1258	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R1259	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R1260	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R1261	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R1262	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R1264	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R1265	VRS-CY1JF222J	J	2.2k	1/16W Metal Oxide	AA
R1266	VRS-CY1JF222J	J	2.2k	1/16W Metal Oxide	AA
R1267	VRS-CY1JF3R3J	J	3.3	1/16W Metal Oxide	AA
R1268	VRS-CY1JF3R3J	J	3.3	1/16W Metal Oxide	AA
R1269	VRS-CY1JF3R3J	J	3.3	1/16W Metal Oxide	AA
R1271	VRS-CY1JF222J	J	2.2k	1/16W Metal Oxide	AA
R1272	VRS-CY1JF222J	J	2.2k	1/16W Metal Oxide	AA
R1273	VRS-CY1JF3R3J	J	3.3	1/16W Metal Oxide	AA
R1274	VRS-CY1JF3R3J	J	3.3	1/16W Metal Oxide	AA
R1275	VRS-CY1JF3R3J	J	3.3	1/16W Metal Oxide	AA
R1276	VRS-CY1JF332J	J	3.3k	1/16W Metal Oxide	AA
R1278	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R1279	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R1280	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R1284	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R1285	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R1286	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R1287	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R1288	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R1289	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R1290	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R1291	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R1292	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R1294	VRS-CY1JF333J	J	33k	1/16W Metal Oxide	AA
R1301	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R1302	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R1303	VRS-CY1JF273F	J	27k	1/16W Metal Oxide	AA
R1304	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R1305	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R1306	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R1307	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R1308	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R1309	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R1310	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R1311	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R1312	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R1313	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R1314	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R1315	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R1316	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R1317	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R1318	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R1320	VRS-CY1JF332J	J	3.3k	1/16W Metal Oxide	AA
R1322	VRS-CY1JF332J	J	3.3k	1/16W Metal Oxide	AA
R1323	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R1324	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA

Ref. No.	Part No.	★		Description	Code
R1325	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R1326	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R1327	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R1328	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R1329	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R1330	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R1331	VRS-CY1JF102J	J	1.0k	1/16W Metal Oxide	AA
R1334	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R1335	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R1336	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R1337	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R1338	VRS-CY1JF332J	J	3.3k	1/16W Metal Oxide	AA
R1339	VRS-CY1JF332J	J	3.3k	1/16W Metal Oxide	AA
R1340	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R1341	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R1342	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R1343	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R1344	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R1345	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R1346	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R1347	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R1348	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R1349	VRS-CY1JF273F	J	27k	1/16W Metal Oxide	AA
R1350	VRS-CY1JF332J	J	3.3k	1/16W Metal Oxide	AA
R1353	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R1354	VRS-CY1JF332J	J	3.3k	1/16W Metal Oxide	AA
R1355	VRS-CY1JF332J	J	3.3k	1/16W Metal Oxide	AA
R1356	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R1357	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R1358	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R1359	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R1360	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R1361	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R1362	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R1364	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R1365	VRS-CY1JF222J	J	2.2k	1/16W Metal Oxide	AA
R1366	VRS-CY1JF222J	J	2.2k	1/16W Metal Oxide	AA
R1367	VRS-CY1JF3R3J	J	3.3	1/16W Metal Oxide	AA
R1368	VRS-CY1JF3R3J	J	3.3	1/16W Metal Oxide	AA
R1369	VRS-CY1JF3R3J	J	3.3	1/16W Metal Oxide	AA
R1371	VRS-CY1JF222J	J	2.2k	1/16W Metal Oxide	AA
R1372	VRS-CY1JF222J	J	2.2k	1/16W Metal Oxide	AA
R1373	VRS-CY1JF3R3J	J	3.3	1/16W Metal Oxide	AA
R1374	VRS-CY1JF3R3J	J	3.3	1/16W Metal Oxide	AA
R1375	VRS-CY1JF3R3J	J	3.3	1/16W Metal Oxide	AA
R1376	VRS-CY1JF332J	J	3.3k	1/16W Metal Oxide	AA
R1378	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R1379	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R1380	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R1384	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R1385	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R1386	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R1387	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R1388	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R1389	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R1390	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R1391	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R1392	VRS-CY1JF100J	J	10	1/16W Metal Oxide	AA
R1393	VRS-CY1JF332J	J	3.3k	1/16W Metal Oxide	AA
R1394	VRS-CY1JF332J	J	3.3k	1/16W Metal Oxide	AA
R1395	VRS-CY1JF332J	J	3.3k	1/16W Metal Oxide	AA
R1396	VRS-CY1JF332J	J	3.3k	1/16W Metal Oxide	AA
R1401	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R1402	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R1403	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R1404	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R1405	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R1406	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R1407	VRS-CY1JF181J	J	180	1/16W Metal Oxide	AA
R1408	VRS-CY1JF181J	J	180	1/16W Metal Oxide	AA
R1409	VRS-CY1JF181J	J	180	1/16W Metal Oxide	AA
R1410	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R1411	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R1412	VRS-CY1JF332J	J	3.3k	1/16W Metal Oxide	AA
R1413	VRS-CY1JF332J	J	3.3k	1/16W Metal Oxide	AA
R1414	VRS-CY1JF332J	J	3.3k	1/16W Metal Oxide	AA

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Ref. No.	Part No.	★	Description	Code
R1415	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R1416	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R1417	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R1418	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R1419	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R1420	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R1421	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R1422	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R1423	VRS-CB1JF101J	J	100 1/16W Metal Oxide	AA
R1424	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R1428	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R1429	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R1430	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R1431	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R1432	VRS-CY1JF100J	J	10 1/16W Metal Oxide	AA
R1433	VRS-CY1JF100J	J	10 1/16W Metal Oxide	AA
R1434	VRS-CY1JF100J	J	10 1/16W Metal Oxide	AA
R1435	VRS-CY1JF100J	J	10 1/16W Metal Oxide	AA
R1436	VRS-CY1JF100J	J	10 1/16W Metal Oxide	AA
R1437	VRS-CY1JF100J	J	10 1/16W Metal Oxide	AA
R1438	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R1439	VRS-CY1JF100J	J	10 1/16W Metal Oxide	AA
R1440	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R1441	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R1442	VRS-CY1JF682J	J	6.8k 1/16W Metal Oxide	AA
R1443	VRS-CY1JF682J	J	6.8k 1/16W Metal Oxide	AA
R1444	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1447	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R1448	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R1449	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R1450	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R1451	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1452	VRS-CY1JF222J	J	2.2k 1/16W Metal Oxide	AA
R1453	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R1454	VRS-CY1JF202J	J	2.0k 1/16W Metal Oxide	AA
R1455	VRS-CY1JF302J	J	3.0k 1/16W Metal Oxide	AA
R1456	VRS-CY1JF562J	J	5.6k 1/16W Metal Oxide	AA
R1457	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1458	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R1459	VRN-CY1JF392D	J	3.9k 1/16W Metal Film	AA
R1460	VRN-CY1JF392D	J	3.9k 1/16W Metal Film	AA
R1461	VRS-CY1JF2R2J	J	2.2 1/16W Metal Oxide	AA
R1462	VRN-CY1JF392D	J	3.9k 1/16W Metal Film	AA
R1464	VRN-CY1JF392D	J	3.9k 1/16W Metal Film	AA
R1465	VRS-CY1JF2R2J	J	2.2 1/16W Metal Oxide	AA
R1466	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R1467	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R1468	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R1469	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R1470	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R1471	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R1472	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R1473	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R1474	VRS-CY1JF123F	J	12k 1/16W Metal Oxide	AA
R1475	VRS-CY1JF102F	J	1.0k 1/16W Metal Oxide	AA
R1476	VRS-CY1JF510F	J	51 1/16W Metal Oxide	AA
R1477	VRS-TX2HF000J	J	0 1/2W Metal Oxide	AA
R1478	VRS-CY1JF104J	J	100k 1/16W Metal Oxide	AA
R1479	VRS-CY1JF104J	J	100k 1/16W Metal Oxide	AA
R1480	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R1483	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R1485	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1486	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R1487	VRS-CY1JF472J	J	4.7k 1/16W Metal Oxide	AA
R1488	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1489	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1490	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R1491	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R1492	VRS-CY1JF222J	J	2.2k 1/16W Metal Oxide	AA
R1493	VRS-TX2HF5R6J	J	5.6 1/2W Metal Oxide	AA
R1494	VRS-CY1JF104J	J	100k 1/16W Metal Oxide	AA
R1495	VRS-CY1JF104J	J	100k 1/16W Metal Oxide	AA
R1496	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R1497	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R1498	VRS-CY1JF473J	J	47k 1/16W Metal Oxide	AA
R1499	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1501	VRN-CY1JF102D	J	1.0k 1/16W Metal Film	AB
R1502	VRN-CY1JF102D	J	1.0k 1/16W Metal Film	AB
R1503	VRS-CY1JF221J	J	220 1/16W Metal Oxide	AA
R1504	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R1505	VRN-CY1JF102D	J	1.0k 1/16W Metal Film	AB
R1506	VRS-CY1JF221J	J	220 1/16W Metal Oxide	AA
R1507	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R1508	VRN-CY1JF102D	J	1.0k 1/16W Metal Film	AB
R1509	VRS-CY1JF221J	J	220 1/16W Metal Oxide	AA
R1510	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R1511	VRN-CY1JF102D	J	1.0k 1/16W Metal Film	AB
R1512	VRS-CY1JF153J	J	15k 1/16W Metal Oxide	AA
R1513	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R1515	VRS-TV1JD000J	J	0 1/16W Metal Oxide	AA
R1517	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1518	VRS-CY1JF272J	J	2.7k 1/16W Metal Oxide	AA
R1529	VRS-CY1JF512F	J	5.1k 1/16W Metal Oxide	AA
R1530	VRS-CY1JF102F	J	1.0k 1/16W Metal Oxide	AA
R1531	VRS-CY1JF471J	J	470 1/16W Metal Oxide	AA
R1532	VRS-CY1JF202F	J	2.0k 1/16W Metal Oxide	AA
R1533	VRS-CY1JF102F	J	1.0k 1/16W Metal Oxide	AA
R1534	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R1535	VRS-CY1JF680J	J	68 1/16W Metal Oxide	AA
R1536	VRS-CY1JF470J	J	47 1/16W Metal Oxide	AA
R1537	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1538	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1539	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1540	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1541	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1542	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1543	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1544	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1545	VRS-CY1JF680J	J	68 1/16W Metal Oxide	AA
R1546	VRS-CY1JF470J	J	47 1/16W Metal Oxide	AA
R1547	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1548	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1549	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1550	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1551	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1552	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1553	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1554	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1555	VRS-CY1JF680J	J	68 1/16W Metal Oxide	AA
R1556	VRS-CY1JF470J	J	47 1/16W Metal Oxide	AA
R1557	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1558	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1559	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1560	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1561	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1562	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1563	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1564	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1565	VRS-CY1JF470J	J	47 1/16W Metal Oxide	AA
R1566	VRS-CY1JF470J	J	47 1/16W Metal Oxide	AA
R1567	VRS-CY1JF470J	J	47 1/16W Metal Oxide	AA
R1568	VRN-CY1JF102D	J	1.0k 1/16W Metal Film	AB
R1575	VRN-CY1JF821D	J	820 1/16W Metal Film	AB
R1576	VRN-CY1JF821D	J	820 1/16W Metal Film	AB
R1577	VRN-CY1JF821D	J	820 1/16W Metal Film	AB
R1580	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R1581	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R1582	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R1583	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R1584	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R1585	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R1586	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R1590	VRN-CY1JF102D	J	1.0k 1/16W Metal Film	AB
R1591	VRN-CY1JF102D	J	1.0k 1/16W Metal Film	AB
R1592	VRN-CY1JF102D	J	1.0k 1/16W Metal Film	AB
R1606	VRS-CY1JF392J	J	3.9k 1/16W Metal Oxide	AA

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Ref. No.	Part No.	★	Description	Code
R1607	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R1608	VRS-CY1JF392J	J	3.9k 1/16W Metal Oxide	AA
R1609	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R1610	VRS-CY1JF392J	J	3.9k 1/16W Metal Oxide	AA
R1611	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R1612	VRS-CY1JF392J	J	3.9k 1/16W Metal Oxide	AA
R1613	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R1626	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R1627	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R1628	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R1629	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R1630	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R1631	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R1632	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R1633	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R1634	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R1635	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R1636	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R1637	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R1638	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R1639	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R1648	VRS-TV1JD000J	J	0 1/16W Metal Oxide	AA
R1650	VRS-CY1JF124J	J	120k 1/16W Metal Oxide	AA
R1651	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1653	VRS-CY1JF683J	J	68k 1/16W Metal Oxide	AA
R1654	VRS-CY1JF273J	J	27k 1/16W Metal Oxide	AA
R1657	VRS-CY1JF563J	J	56k 1/16W Metal Oxide	AA
R1658	VRS-CY1JF563J	J	56k 1/16W Metal Oxide	AA
R1659	VRS-CY1JF563J	J	56k 1/16W Metal Oxide	AA
R1660	VRS-CY1JF563J	J	56k 1/16W Metal Oxide	AA
R4210	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R4211	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R4212	VRS-CY1JF472J	J	4.7k 1/16W Metal Oxide	AA
R4213	VRS-CY1JF333J	J	33k 1/16W Metal Oxide	AA
R4214	VRS-CY1JF682J	J	6.8k 1/16W Metal Oxide	AA
R4217	VRS-CY1JF153J	J	15k 1/16W Metal Oxide	AA
R4218	VRS-CY1JF332J	J	3.3k 1/16W Metal Oxide	AA
R4223	VRS-CY1JF151J	J	150 1/16W Metal Oxide	AA
R4224	VRS-CY1JF562F	J	5.6k 1/16W Metal Oxide	AA
R4225	VRS-CY1JF272F	J	2.7k 1/16W Metal Oxide	AA
R4226	VRS-CY1JF822F	J	8.2k 1/16W Metal Oxide	AA
R4227	VRS-CY1JF472F	J	4.7k 1/16W Metal Oxide	AA
R4228	VRS-CY1JF393F	J	39k 1/16W Metal Oxide	AA
R4229	VRS-CY1JF392F	J	3.9k 1/16W Metal Oxide	AA
R4230	VRS-CY1JF223J	J	22k 1/16W Metal Oxide	AA
R4231	VRS-CY1JF153J	J	15k 1/16W Metal Oxide	AA
R4232	VRS-CY1JF223J	J	22k 1/16W Metal Oxide	AA
R4233	VRS-CY1JF153J	J	15k 1/16W Metal Oxide	AA
R4234	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R4237	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R4239	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R4401	VRS-CY1JF332J	J	3.3k 1/16W Metal Oxide	AA
R4405	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R4406	VRS-CY1JF223J	J	22k 1/16W Metal Oxide	AA
R4407	VRS-CY1JF153J	J	15k 1/16W Metal Oxide	AA
R4408	VRS-CY1JF223J	J	22k 1/16W Metal Oxide	AA
R4409	VRS-CY1JF153J	J	15k 1/16W Metal Oxide	AA
R4413	VRS-CY1JF333J	J	33k 1/16W Metal Oxide	AA
R4414	VRS-CY1JF104J	J	100k 1/16W Metal Oxide	AA
R4418	VRS-CY1JF332J	J	3.3k 1/16W Metal Oxide	AA
R4419	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R4420	VRS-CY1JF151J	J	150 1/16W Metal Oxide	AA
R4421	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R4422	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R4423	VRS-CY1JF151J	J	150 1/16W Metal Oxide	AA
R4498	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R5003	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R5004	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R5005	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R5006	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R5007	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R5008	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R5010	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R5011	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R5012	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R5013	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R5016	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R5017	VRS-TX2HF3R9J	J	3.9 1/2W Metal Oxide	AB
R5018	VRS-TX2HF3R9J	J	3.9 1/2W Metal Oxide	AB
R5022	VRS-TX2HF3R9J	J	3.9 1/2W Metal Oxide	AB
R5023	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R5024	VRS-TX2HF3R9J	J	3.9 1/2W Metal Oxide	AB
R5031	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R5032	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R5033	VRS-CY1JF822F	J	8.2k 1/16W Metal Oxide	AA
R5034	VRS-CY1JF472F	J	4.7k 1/16W Metal Oxide	AA
R5035	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R5036	VRS-TW2ED221J	J	220 1/4W Metal Oxide	AA
R5037	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R5038	VRS-TW2ED221J	J	220 1/4W Metal Oxide	AA
R5039	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R5040	VRS-TW2ED221J	J	220 1/4W Metal Oxide	AA
R5042	VRS-TW2ED221J	J	220 1/4W Metal Oxide	AA
R5044	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R5045	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R5046	VRS-TW2ED221J	J	220 1/4W Metal Oxide	AA
R5047	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R5048	VRS-TX2HF220J	J	22 1/2W Metal Oxide	AB
R5053	VRS-CA1JF101J	J	100 1/16W Metal Oxide	AA
R5055	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R5074	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R5075	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R5076	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R5081	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R5082	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R5084	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R5087	VRS-CY1JF471J	J	470 1/16W Metal Oxide	AA
R5093	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R5099	VRS-CY1JF471J	J	470 1/16W Metal Oxide	AA
R5105	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R5106	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R5107	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R5108	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R5109	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R5110	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R5111	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R5112	VRS-TW2ED000J	J	0 1/4W Metal Oxide	AB
R5113	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R5114	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R5121	VRS-CY1JF272J	J	2.7k 1/16W Metal Oxide	AA
R5125	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R5126	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R5127	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R5128	VRS-CY1JF272J	J	2.7k 1/16W Metal Oxide	AA
R5129	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R5130	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R5133	VRS-CY1JF272J	J	2.7k 1/16W Metal Oxide	AA
R5135	VRS-CY1JF272J	J	2.7k 1/16W Metal Oxide	AA
R5137	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R5138	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R5140	VRN-CY1JF222D	J	2.2k 1/16W Metal Film	AB
R5142	VRN-CY1JF151D	J	150 1/16W Metal Film	AA
R5144	VRN-CY1JF472D	J	4.7k 1/16W Metal Film	AA
R5150	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R5151	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R5152	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R5153	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R5155	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R5157	VRS-CY1JF272J	J	2.7k 1/16W Metal Oxide	AA
R5159	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R5162	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R5163	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R5164	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R5165	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R5167	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R5168	VRS-TV1JD000J	J	0 1/16W Metal Oxide	AA
R5169	VRS-TV1JD000J	J	0 1/16W Metal Oxide	AA

Ref. No.	Part No.	★	Description	Code

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R5170	VRS-TV1JD000J	J	0	1/16W	Metal Oxide	AA
R5505	VRS-CY1JF472J	J	4.7k	1/16W	Metal Oxide	AA
R5506	VRS-TX2HF2R2J	J	2.2	1/2W	Metal Oxide	AB
R5507	VRS-TX2HF2R2J	J	2.2	1/2W	Metal Oxide	AB
R5509	VRS-CB1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R5510	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R5513	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R5514	VRS-TQ2BD000J	J	0	1/8W	Metal Oxide	AA
R5515	VRS-TQ2BD000J	J	0	1/8W	Metal Oxide	AA
R5516	VRS-TQ2BD000J	J	0	1/8W	Metal Oxide	AA
R5517	VRS-TQ2BD000J	J	0	1/8W	Metal Oxide	AA
R5518	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R5519	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R5520	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R5521	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R5525	VRS-CY1JF563F	J	56k	1/16W	Metal Oxide	AA
R5526	VRS-CY1JF184J	J	180k	1/16W	Metal Oxide	AA
R5527	VRN-CY1JF242D	J	2.4k	1/16W	Metal Film	AB
R5528	VRS-CY1JF472J	J	4.7k	1/16W	Metal Oxide	AA
R5529	VRS-CY1JF392J	J	3.9k	1/16W	Metal Oxide	AA
R5530	VRS-CY1JF472J	J	4.7k	1/16W	Metal Oxide	AA
R5538	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R5539	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R5540	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R5543	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R5550	VRS-CY1JF393J	J	39k	1/16W	Metal Oxide	AA
R5551	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R5552	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R5553	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R5554	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R5555	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R5556	VRS-TX2HF2R2J	J	2.2	1/2W	Metal Oxide	AB
R5557	VRS-TX2HF2R2J	J	2.2	1/2W	Metal Oxide	AB
R5558	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R5570	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R5571	VRS-CY1JF103F	J	10k	1/16W	Metal Oxide	AA
R5573	VRS-CY1JF102F	J	1.0k	1/16W	Metal Oxide	AA
R5577	VRS-CY1JF683F	J	68k	1/16W	Metal Oxide	AA
R5578	VRS-CY1JF102F	J	1.0k	1/16W	Metal Oxide	AA
R5579	VRS-CY1JF822F	J	8.2k	1/16W	Metal Oxide	AA
R5580	VRS-CY1JF473F	J	47k	1/16W	Metal Oxide	AA
R5590	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R5619	VRS-CY1JF682J	J	6.8k	1/16W	Metal Oxide	AA
R5620	VRS-CY1JF562J	J	5.6k	1/16W	Metal Oxide	AA
R5621	VRS-TX2HF2R2J	J	2.2	1/2W	Metal Oxide	AB
R5622	VRS-TX2HF2R2J	J	2.2	1/2W	Metal Oxide	AB
R5623	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R5624	VRS-CY1JF103F	J	10k	1/16W	Metal Oxide	AA
R5625	VRS-CY1JF122F	J	1.2k	1/16W	Metal Oxide	AA
R5626	VRS-CY1JF683F	J	68k	1/16W	Metal Oxide	AA
R5628	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R5629	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R5630	VRS-CY1JF393J	J	39k	1/16W	Metal Oxide	AA

SWITCHES

S4401	QSW-S0198CEZZ	J	Slide Switch	AF
S4402	QSW-S0198CEZZ	J	Slide Switch	AF
S5001	QSW-K0065GEZZ	J	Key Switch	AC

MISCELLANEOUS PARTS

F1401	QFS-L8012CEZZ	J	Fuse 0.8A	AF
F1601	QFS-L8012CEZZ	J	Fuse 0.8A	AF
FB1101	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB1102	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB1103	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB1104	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB1105	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB1107	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB1201	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB1202	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB1203	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB1204	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB1205	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB1206	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB1301	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB1302	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB1303	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB1304	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB1305	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB1306	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB1401	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB1402	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB1501	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB1503	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB1505	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB1508	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB1509	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB1510	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB1511	RBLN-0065CEZZ	J	Ferrite Bead	AB
FB5001	RBLN-0062CEZZ	J	Ferrite Bead	AC
FB5501	RBLN-0062CEZZ	J	Ferrite Bead	AC
FB5502	RBLN-0062CEZZ	J	Ferrite Bead	AC
FB5504	RBLN-0065CEZZ	J	Ferrite Bead	AB
FB5505	RBLN-0065CEZZ	J	Ferrite Bead	AB
FB5507	RBLN-0062CEZZ	J	Ferrite Bead	AC
FB5508	RBLN-0062CEZZ	J	Ferrite Bead	AC
FB5509	RBLN-0062CEZZ	J	Ferrite Bead	AC
FB5510	RBLN-0062CEZZ	J	Ferrite Bead	AC
FB5512	RBLN-0065CEZZ	J	Ferrite Bead	AB
FB5513	RBLN-0065CEZZ	J	Ferrite Bead	AB
FB5516	RBLN-0067CEZZ	J	Ferrite Bead	AC
FB5517	RBLN-0067CEZZ	J	Ferrite Bead	AC
FB5518	RBLN-0065CEZZ	J	Ferrite Bead	AB
P5501	QPLGN0174FJZZ	J	Plug, 2-Pin (Q)	AC
P5503	QPLGN0264TAZZ	J	Plug, 2-Pin (L)	AC
P5504	QPLGN0174FJZZ	J	Plug, 2-Pin (F)	AC
P5505	QPLGN0176FJZZ	J	Plug, 4-Pin (FS)	AD
P5506	QPLGN0176FJZZ	J	Plug, 4-Pin (FN)	AD
P5507	QPLGN0175FJZZ	J	Plug, 3-Pin (FP)	AD
P5508	QPLGN0864TAZZ	J	Plug, 8-Pin (S)	AD
P5509	QPLGN0436FJZZ	J	Plug, 28-Pin	AE
SC1101	QSOCN3276TAZZ	J	Socket, 32-Pin	AH
SC1201	QSOCN3276TAZZ	J	Socket, 32-Pin	AH
SC1301	QSOCN3276TAZZ	J	Socket, 32-Pin	AH
SC1404	QCNCW6054TAZZ	J	Connector, 60-Pin	AK
SC1405	QCNCW6054TAZZ	J	Connector, 60-Pin	AK
SC1501	QSOCZ2058CEZZ	J	Socket, 20-Pin	AG
SC1502	QSOCZ2058CEZZ	J	Socket, 20-Pin	AG
SC5001	QSOCN1897REZZ	J	Socket, 18-Pin (KY)	AE
SC5502	QCNCW6054TAZZ	J	Connector, 60-Pin	AK
RMC7502	RRMCU0229CEZZ	J	R/C Receiver	AH
	PSLDC3076CEFN	J	Shield	AE

DUNTK9769DE06
VIDEO UNIT

INTEGRATED CIRCUITS

Ref. No.	Part No.	★	Description	Code
IC6001	VHiNJM2245M-1	J	NJM2245M	AF
IC6004	VHiMC141627-1	J	MC141627FT	AY

TRANSISTORS

Ref. No.	Part No.	★	Description	Code
Q6002	VS2PB709AR/-1	J	2PB709AR	AB
Q6003	VS2PD601AR/-1	J	2PD601AR	AB
Q6004	VS2PD601AR/-1	J	2PD601AR	AB
Q6008	VS2PD601AR/-1	J	2PD601AR	AB
Q6009	VS2PD601AR/-1	J	2PD601AR	AB
Q6013	VS2PD601AR/-1	J	2PD601AR	AB
Q6015	VSiMX2/////-1	J	IMX2	AB

DIODES

Ref. No.	Part No.	★	Description	Code
D6001	RH-EX0226CEZZ	J	Zener Diode, 12V	AB
D6007	VHDMA153///-1	J	Diode DMA153	AB
D6009	VHD1SS355//-1	J	Diode 1SS355	AB
D6010	RH-EX0228CEZZ	J	Zener Diode	AB

COILS AND FILTERS

Ref. No.	Part No.	★	Description	Code
FL6002	RFiLN0124GEZZ	J	Filter	AD
FL6003	RFiLN0124GEZZ	J	Filter	AD
FL6004	RFiLN0124GEZZ	J	Filter	AD
FL6005	RFiLN0124GEZZ	J	Filter	AD
FL6006	RFiLN0124GEZZ	J	Filter	AD
FL6011	RCiLF0316CEZZ	J	Filter	AG
FL6012	RCiLF0316CEZZ	J	Filter	AG
L6001	VP-1M270J3R8N	J	Peaking 27µH	AC
L6002	VP-1M330J4R2N	J	Peaking 33µH	AC
L6003	VP-1M330J4R2N	J	Peaking 33µH	AC

CAPACITORS

Ref. No.	Part No.	★				Code
C6001	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C6005	VCEAPF1CW226M	J	22	16V	Electrolytic	AB
C6013	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C6014	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C6015	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C6016	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C6017	VCEAPF0JW476M	J	47	6.3V	Electrolytic	AB
C6018	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C6019	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C6020	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C6021	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C6022	VCEAPF1HW105M	J	1.0	50V	Electrolytic	AB
C6023	VCCCCY1HH270J	J	27p	50V	Ceramic	AA
C6024	VCCCCY1HH270J	J	27p	50V	Ceramic	AA
C6025	VCEAPF1CW226M	J	22	16V	Electrolytic	AB
C6027	VCE9PF1HW105M	J	1.0	50V	Elect.(N.P)	AC
C6029	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C6030	VCEAPF1HW105M	J	1.0	50V	Electrolytic	AB
C6031	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C6035	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C6037	VCEAPF0JW226M	J	22	6.3V	Electrolytic	AB
C6038	VCEAPF0JW226M	J	22	6.3V	Electrolytic	AB
C6039	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C6040	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C6041	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C6042	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C6043	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C6044	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C6045	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA

RESISTORS

Ref. No.	Part No.	★				Code
R6001	VRS-CY1JF100J	J	10	1/16W	Metal Oxide	AA
R6002	VRS-TQ2BD750J	J	75	1/8W	Metal Oxide	AA
R6003	VRS-TQ2BD750J	J	75	1/8W	Metal Oxide	AA
R6004	VRS-CY1JF100J	J	10	1/16W	Metal Oxide	AA
R6005	VRS-TQ2BD750J	J	75	1/8W	Metal Oxide	AA
R6006	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R6007	VRS-CY1JF100J	J	10	1/16W	Metal Oxide	AA
R6008	VRS-CY1JF123J	J	12k	1/16W	Metal Oxide	AA
R6011	VRS-CY1JF4R7J	J	4.7	1/16W	Metal Oxide	AA
R6047	VRS-CY1JF473J	J	47k	1/16W	Metal Oxide	AA
R6049	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R6050	VRS-CY1JF560J	J	56	1/16W	Metal Oxide	AA
R6051	VRS-CY1JF473J	J	47k	1/16W	Metal Oxide	AA
R6052	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R6053	VRS-CY1JF754J	J	750k	1/16W	Metal Oxide	AA
R6054	VRS-CY1JF473J	J	47k	1/16W	Metal Oxide	AA
R6055	VRS-CY1JF560J	J	56	1/16W	Metal Oxide	AA
R6056	VRS-TV1JD152J	J	1.5k	1/16W	Metal Oxide	AA
R6057	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R6058	VRS-CY1JF273J	J	27k	1/16W	Metal Oxide	AA
R6059	VRS-CY1JF273J	J	27k	1/16W	Metal Oxide	AA
R6060	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R6061	VRS-CY1JF560J	J	56	1/16W	Metal Oxide	AA
R6062	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R6063	VRS-CY1JF393J	J	39k	1/16W	Metal Oxide	AA
R6064	VRS-CY1JF393J	J	39k	1/16W	Metal Oxide	AA
R6069	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R6070	VRS-CY1JF153J	J	15k	1/16W	Metal Oxide	AA
R6071	VRS-CY1JF152J	J	1.5k	1/16W	Metal Oxide	AA
R6072	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R6073	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R6074	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R6075	VRS-CY1JF153J	J	15k	1/16W	Metal Oxide	AA
R6081	VRS-CY1JF185J	J	1.8M	1/16W	Metal Oxide	AE
R6082	VRS-CY1JF563J	J	56k	1/16W	Metal Oxide	AA
R6085	VRS-CY1JF121J	J	120	1/16W	Metal Oxide	AA
R6087	VRS-TQ2BD000J	J	0	1/8W	Metal Oxide	AA
R6088	VRS-TQ2BD000J	J	0	1/8W	Metal Oxide	AA
R6089	VRS-CY1JF123J	J	12k	1/16W	Metal Oxide	AA
R6090	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R6091	VRS-CY1JF224J	J	220k	1/16W	Metal Oxide	AA
R6092	VRS-CY1JF224J	J	220k	1/16W	Metal Oxide	AA
R6094	VRS-CY1JF392J	J	3.9k	1/16W	Metal Oxide	AA
R6095	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R6096	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA

MISCELLANEOUS PARTS

Ref. No.	Part No.	★	Description	Code
FB6001	RBLN-0067CEZZ	J	Ferrite Bead	AC
FB6013	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB6014	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB6015	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB6016	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB6017	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB6018	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB6019	RBLN-0062CEZZ	J	Ferrite Bead	AC
FB6020	RBLN-0062CEZZ	J	Ferrite Bead	AC
FB6021	RBLN-0062CEZZ	J	Ferrite Bead	AC
FB6022	RBLN-0062CEZZ	J	Ferrite Bead	AC
J6001	QJAKG0049CEZZ	J	A/V Input	AH
J6003	QSOCD0403GEZZ	J	S-Video Input	AE
SC6001	QSOCZ3043CEZZ	J	Socket 30-Pin (VS)	AG
	PSLDM4519CEFW	J	Shield	AK
	QEARP0093CEFN	J	Earth Plate	AE

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PC TERMINAL UNIT

INTEGRATED CIRCUITS

Ref. No.	Part No.	★	Description	Code
IC3003	VHiTL712CPS-1	J	TL712CPS	AL
IC3004	VHiTL712CPS-1	J	TL712CPS	AL
IC3005	VHiTL712CPS-1	J	TL712CPS	AL
IC3009	VHiTL712CPS-1	J	TL712CPS	AL
IC3010	VHiTL712CPS-1	J	TL712CPS	AL
IC3011	VHiEL4332C/-1	J	EL4332CS	BA
IC3012	VHiHCT157AF-1	J	TC74HCT157AF	AH
IC3013	VHi24LC21//-1	J	24LC21T	AN
IC3014	VHi24LC21//-1	J	24LC21T	AN
IC3015	VHiTL712CPS-1	J	TL712CPS	AL
IC3303	VHiNJM2233V-1	J	NJM2233V	AE
IC3304	VHiNJM2233V-1	J	NJM2233V	AE
IC7006	VHiUPD4721G-1	J	UPD4721G-GJG	AQ

TRANSISTOR

Ref. No.	Part No.	★	Description	Code
Q3301	VS2PD601AR/-1	J	2PD601AR	AB

DIODES

Ref. No.	Part No.	★	Description	Code
D3003	VHDMA152WA/-1	J	Diode MA152WA	AA
D3004	VHDMA152WA/-1	J	Diode MA152WA	AA
D3020	VHDMA152WA/-1	J	Diode MA152WA	AA
D3021	VHDMA152WA/-1	J	Diode MA152WA	AA
D3022	VHDMA152WA/-1	J	Diode MA152WA	AA
D3023	VHDMA152WA/-1	J	Diode MA152WA	AA
D3024	VHDMA152WA/-1	J	Diode MA152WA	AA
D3028	VHDMA152WA/-1	J	Diode MA152WA	AA
D3029	VHDMA152WA/-1	J	Diode MA152WA	AA
D3032	VHDMA152WA/-1	J	Diode MA152WA	AA
D3033	VHDMA152WA/-1	J	Diode MA152WA	AA
D3034	VHDMA152WA/-1	J	Diode MA152WA	AA
D3305	RH-EX0226CEZZ	J	Zener Diode, 12V	AB
D3306	RH-EX0226CEZZ	J	Zener Diode, 12V	AB
D3307	RH-EX0226CEZZ	J	Zener Diode, 12V	AB
D3308	RH-EX0226CEZZ	J	Zener Diode, 12V	AB
D3309	RH-EX0226CEZZ	J	Zener Diode, 12V	AB
D3310	RH-EX0226CEZZ	J	Zener Diode, 12V	AB
D7025	VHDMA3120WA-1	J	Diode MA3120WA	AK
D7026	VHDMA3120WA-1	J	Diode MA3120WA	AK
D7027	VHDMA3120WA-1	J	Diode MA3120WA	AK
D7028	VHDMA3120WA-1	J	Diode MA3120WA	AK

COIL

Ref. No.	Part No.	★	Description	Code
L3006	VP-1M100J1R6N	J	Peaking 10µH	AC

CAPACITORS

Ref. No.	Part No.	★				Code
C3001	VCCCCY1HH330J	J	33p	50V	Ceramic	AA
C3002	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3003	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3004	VCCCCY1HH330J	J	33p	50V	Ceramic	AA
C3005	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3006	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3008	VCCCCY1HH330J	J	33p	50V	Ceramic	AA
C3009	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3010	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3027	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3028	VCEAPF0JW476M	J	47	6.3V	Electrolytic	AB
C3029	VCEAPF0JW476M	J	47	6.3V	Electrolytic	AB
C3030	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C3031	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C3032	VCEAPF0JW476M	J	47	6.3V	Electrolytic	AB
C3033	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C3034	VCEAPF0JW476M	J	47	6.3V	Electrolytic	AB
C3039	VCEAPF0JW476M	J	47	6.3V	Electrolytic	AB
C3040	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C3041	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C3042	VCEAPF0JW476M	J	47	6.3V	Electrolytic	AB
C3043	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C3044	VCCCCY1HH330J	J	33p	50V	Ceramic	AA
C3045	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3046	VCCCCY1HH330J	J	33p	50V	Ceramic	AA
C3047	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3062	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3063	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3065	VCEAPF0JW476M	J	47	6.3V	Electrolytic	AB
C3066	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3070	VCEAPF0JW476M	J	47	6.3V	Electrolytic	AB
C3071	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C3073	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C3075	VCCCCY1HH330J	J	33p	50V	Ceramic	AA
C3076	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3077	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3078	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3080	VCEAPF0JW226M	J	22	6.3V	Electrolytic	AB
C3303	VCCCCY1HH101J	J	100p	50V	Ceramic	AA
C3304	VCCCCY1HH101J	J	100p	50V	Ceramic	AA
C3311	VCCCCY1HH101J	J	100p	50V	Ceramic	AA
C3312	VCCCCY1HH101J	J	100p	50V	Ceramic	AA
C3313	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C3314	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C3319	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C3320	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C3321	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C3322	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C3323	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C7001	VCEAPF0JW476M	J	47	6.3V	Electrolytic	AB
C7017	VCEAPF1HW225M	J	2.2	50V	Electrolytic	AB
C7018	VCEAPF1HW225M	J	2.2	50V	Electrolytic	AB
C7019	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C7020	VCEAPF1HW225M	J	2.2	50V	Electrolytic	AB
C7021	VCEAPF1HW225M	J	2.2	50V	Electrolytic	AB
C7501	VCEAPF0JW107M	J	100	6.3V	Electrolytic	AC
C7502	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA

RESISTORS

Ref. No.	Part No.	★				Code
R2001	VRS-TW2ED750J	J	75	1/4W	Metal Oxide	AA
R2002	VRS-TW2ED750J	J	75	1/4W	Metal Oxide	AA
R2003	VRS-TW2ED750J	J	75	1/4W	Metal Oxide	AA
R3004	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R3005	VRS-CY1JF392J	J	3.9k	1/16W	Metal Oxide	AA
R3006	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R3007	VRS-CY1JF271J	J	270	1/16W	Metal Oxide	AA
R3008	VRS-CY1JF222J	J	2.2k	1/16W	Metal Oxide	AA
R3009	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R3010	VRS-CY1JF392J	J	3.9k	1/16W	Metal Oxide	AA
R3011	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R3012	VRS-CY1JF271J	J	270	1/16W	Metal Oxide	AA
R3013	VRS-CY1JF222J	J	2.2k	1/16W	Metal Oxide	AA
R3014	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R3015	VRS-CY1JF392J	J	3.9k	1/16W	Metal Oxide	AA
R3016	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R3017	VRS-CY1JF271J	J	270	1/16W	Metal Oxide	AA
R3018	VRS-CY1JF222J	J	2.2k	1/16W	Metal Oxide	AA
R3025	VRS-TW2ED750J	J	75	1/4W	Metal Oxide	AA
R3026	VRS-TW2ED750J	J	75	1/4W	Metal Oxide	AA
R3027	VRS-TW2ED750J	J	75	1/4W	Metal Oxide	AA
R3046	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R3054	VRS-CY1JF271J	J	270	1/16W	Metal Oxide	AA
R3055	VRS-CY1JF222J	J	2.2k	1/16W	Metal Oxide	AA
R3056	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R3057	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R3058	VRS-CY1JF392J	J	3.9k	1/16W	Metal Oxide	AA
R3059	VRS-CY1JF271J	J	270	1/16W	Metal Oxide	AA
R3060	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R3061	VRS-CY1JF222J	J	2.2k	1/16W	Metal Oxide	AA
R3062	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R3063	VRS-CY1JF392J	J	3.9k	1/16W	Metal Oxide	AA
R3092	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R3093	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R3094	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R3096	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R3100	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R3102	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R3103	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R3112	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R3116	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA

DUNTK9857DE06

PC TERMINAL UNIT (Continued)

Ref. No.	Part No.	★	Description			Code
R3117	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R3118	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R3119	VRS-CY1JF473J	J	47k	1/16W	Metal Oxide	AA
R3120	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R3121	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R3130	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R3131	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R3132	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R3138	VRS-TW2ED750J	J	75	1/4W	Metal Oxide	AA
R3139	VRS-TW2ED750J	J	75	1/4W	Metal Oxide	AA
R3140	VRS-TW2ED750J	J	75	1/4W	Metal Oxide	AA
R3141	VRS-CY1JF473J	J	47k	1/16W	Metal Oxide	AA
R3142	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R3143	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R3144	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R3145	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R3146	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R3147	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R3149	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R3150	VRS-CY1JF271J	J	270	1/16W	Metal Oxide	AA
R3151	VRS-CY1JF222J	J	2.2k	1/16W	Metal Oxide	AA
R3152	VRS-CY1JF392J	J	3.9k	1/16W	Metal Oxide	AA
R3153	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R3154	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R3155	VRS-CY1JF270J	J	27	1/16W	Metal Oxide	AA
R3156	VRS-CY1JF473J	J	47k	1/16W	Metal Oxide	AA
R3157	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R3158	VRS-CY1JF473J	J	47k	1/16W	Metal Oxide	AA
R3159	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R3160	VRS-CY1JF473J	J	47k	1/16W	Metal Oxide	AA
R3161	VRS-CY1JF270J	J	27	1/16W	Metal Oxide	AA
R3162	VRS-CY1JF473J	J	47k	1/16W	Metal Oxide	AA
R3163	VRS-CY1JF270J	J	27	1/16W	Metal Oxide	AA
R3164	VRS-CY1JF473J	J	47k	1/16W	Metal Oxide	AA
R3165	VRS-CY1JF270J	J	27	1/16W	Metal Oxide	AA
R3166	VRS-CY1JF473J	J	47k	1/16W	Metal Oxide	AA
R3301	VRS-CY1JF123J	J	12k	1/16W	Metal Oxide	AA
R3302	VRS-CY1JF123J	J	12k	1/16W	Metal Oxide	AA
R3303	VRS-CY1JF224J	J	220k	1/16W	Metal Oxide	AA
R3304	VRS-CY1JF224J	J	220k	1/16W	Metal Oxide	AA
R3309	VRS-CY1JF681J	J	680	1/16W	Metal Oxide	AA
R3310	VRS-CY1JF681J	J	680	1/16W	Metal Oxide	AA
R3311	VRS-CY1JF105J	J	1.0M	1/16W	Metal Oxide	AA
R3312	VRS-CY1JF105J	J	1.0M	1/16W	Metal Oxide	AA
R3319	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R3320	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R3321	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R3322	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R3323	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R3324	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R3325	VRS-CY1JF272J	J	2.7k	1/16W	Metal Oxide	AA
R3326	VRS-TV1JD122J	J	1.2k	1/16W	Metal Oxide	AA
R3327	VRS-CY1JF272J	J	2.7k	1/16W	Metal Oxide	AA
R3328	VRS-CY1JF152J	J	1.5k	1/16W	Metal Oxide	AA
R7045	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R7048	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R7090	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R7091	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R7501	VRS-CY1JF471J	J	470	1/16W	Metal Oxide	AA
R7562	VRS-TX2HF220J	J	22	1/2W	Metal Oxide	AB
R7563	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R7564	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R7565	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R7566	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R7567	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA

MISCELLANEOUS PARTS

Ref. No.	Part No.	★	Description	Code
FB3001	RBLN-0060TAZZ	J	Ferrite Bead	AB
FB3002	RBLN-0060TAZZ	J	Ferrite Bead	AB
FB3003	RBLN-0060TAZZ	J	Ferrite Bead	AB
FB3004	RBLN-0060TAZZ	J	Ferrite Bead	AB
FB3005	RBLN-0060TAZZ	J	Ferrite Bead	AB
FB3006	RBLN-0060TAZZ	J	Ferrite Bead	AB
FB3007	RBLN-0060TAZZ	J	Ferrite Bead	AB
FB3008	RBLN-0060TAZZ	J	Ferrite Bead	AB
FB3009	RBLN-0060TAZZ	J	Ferrite Bead	AB
FB3010	RBLN-0060TAZZ	J	Ferrite Bead	AB
FB3301	RBLN-0062CEZZ	J	Ferrite Bead	AC
FB3302	RBLN-0062CEZZ	J	Ferrite Bead	AC
FB3303	RBLN-0062CEZZ	J	Ferrite Bead	AC
FB3307	RBLN-0062CEZZ	J	Ferrite Bead	AC
FB3308	RBLN-0062CEZZ	J	Ferrite Bead	AC
FB3309	RBLN-0062CEZZ	J	Ferrite Bead	AC
FB7001	RBLN-0058TAZZ	J	Ferrite Bead	AC
FB7002	RBLN-0058TAZZ	J	Ferrite Bead	AC
FB7003	RBLN-0058TAZZ	J	Ferrite Bead	AC
FB7004	RBLN-0058TAZZ	J	Ferrite Bead	AC
J3301	QJAKJ0008GEZZ	J	Data Audio In	AD
J3303	QJAKJ0008GEZZ	J	Audio Monitor Out	AD
SC3001	QSOCZ3043CEZZ	J	Socket, 30-Pin (TN)	AG
SC3002	QSOCN0448FJZZ	J	Socket, 15-Pin RGB IN1	AM
SC3003	QSOCN0448FJZZ	J	Socket, 15-Pin RGB IN2	AM
SC7004	QSOCN0345FJZZ	J	Socket, 9-Pin	AM
RMC7501	RRMCU0233CEZZ	J	R/C Receiver	AF
	PSLDM4521CEFW	J	Shield	AK
	QEARP0085CEFW	J	Earth Plate	AD
	NSFTZ0134CEFW	J	Shaft	AD
	NSFTZ0135CEFW	J	Shaft	AD

DUNTK9873DE06
SOUND OUT/REGULATOR UNIT

INTEGRATED CIRCUITS

Ref. No.	Part No.	★	Description	Code
IC1030	RH-iX2204CEZZ	J	PQ12TZ11	AG
IC1031	VHiPQ05TZ11-1	J	PQ05TZ11	AH
IC1032	VHiPQ05TZ11-1	J	PQ05TZ11	AH
IC7301	VHiTDA7056A-1	J	TDA7056A	AP

TRANSISTORS

Ref. No.	Part No.	★	Description	Code
Q1001	VSDTC144EK/-1	J	DTC144EK	AB
Q1002	VSDTC144EK/-1	J	DTC144EK	AB
Q7301	VS2PD601AR/-1	J	2PD601AR	AB

DIODES

Ref. No.	Part No.	★	Description	Code
D1020	VHDDAN202K/-1	J	Diode DAN202K	AB
D1021	VHDDAN202K/-1	J	Diode DAN202K	AB
D1022	VHDDAN202K/-1	J	Diode DAN202K	AB
D1023	RH-EX0226CEZZ	J	Zener Diode, 12V	AB
D1024	RH-EX0226CEZZ	J	Zener Diode, 12V	AB

CAPACITORS

Ref. No.	Part No.	★				Code
C1020	VCEAPF1EW336M	J	33	25V	Electrolytic	AB
C1021	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1022	VCEAPF1CW107M	J	100	16V	Electrolytic	AD
C1023	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1024	VCEAPF1CW107M	J	100	16V	Electrolytic	AD
C1025	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1026	VCEAPF1CW107M	J	100	16V	Electrolytic	AD
C1027	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1028	VCEAPF1CW107M	J	100	16V	Electrolytic	AD
C1029	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1042	VCEAPF1CW107M	J	100	16V	Electrolytic	AD
C1043	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1046	RC-EZ1174CEZZ	J	470	10V	Electrolytic	AQ
C1047	RC-EZ1175CEZZ	J	120	6.3V	Electrolytic	AK
C1049	RC-EZ1174CEZZ	J	470	10V	Electrolytic	AQ
C1050	RC-EZ1175CEZZ	J	120	6.3V	Electrolytic	AK
C7301	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C7302	VCKYTQ1CB474K	J	0.47	16V	Ceramic	AD
C7303	VCEAPF1EW475M	J	4.7	25V	Electrolytic	AB
C7304	VCCCCY1HH471J	J	470p	50V	Ceramic	AA
C7305	VCCCCY1HH471J	J	470p	50V	Ceramic	AA
C7306	VCEAGA1EW477M	J	470	25V	Electrolytic	AD
C7307	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C7308	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C7310	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C7311	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA

RESISTORS

Ref. No.	Part No.	★				Code
R1020	VRS-TX2HF5R6J	J	5.6	1/2W	Metal Oxide	AA
R1021	VRS-TX2HF5R6J	J	5.6	1/2W	Metal Oxide	AA
R1022	VRS-TV1JD103J	J	10k	1/16W	Metal Oxide	AA
R1023	VRS-TV1JD103J	J	10k	1/16W	Metal Oxide	AA
R1024	VRS-TV1JD103J	J	10k	1/16W	Metal Oxide	AA
R1027	VRS-TX2HF2R2J	J	2.2	1/2W	Metal Oxide	AB
R1028	VRS-TX2HF2R2J	J	2.2	1/2W	Metal Oxide	AB
R1029	VRS-TX2HF2R2J	J	2.2	1/2W	Metal Oxide	AB
R1030	VRS-TX2HF2R2J	J	2.2	1/2W	Metal Oxide	AB
R1038	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R1039	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R1042	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R1043	VRS-CY1JF684J	J	680k	1/16W	Metal Oxide	AA
R1045	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R7301	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R7302	VRS-CY1JF473J	J	47k	1/16W	Metal Oxide	AA
R7303	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R7304	VRS-CY1JF473J	J	47k	1/16W	Metal Oxide	AA
R7305	QFS-J2521CEZZ	J	Fuse Resistor			AF
R7307	VRN-CY1JF103D	J	10k	1/16W	Metal Film	AA
R7308	VRN-CY1JF273D	J	27k	1/16W	Metal Film	AB
R7309	VRN-CY1JF183D	J	18k	1/16W	Metal Film	AA
R7310	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R7311	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R7312	VRS-TX2HF8R2J	J	8.2	1/2W	Metal Oxide	AA
R7313	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R7314	VRS-TX2HF000J	J	0	1/2W	Metal Oxide	AA
R7315	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA

MISCELLANEOUS PARTS

Ref. No.	Part No.	★	Description	Code
UNT1001	RCNVD0012CEZZ	J	DC/DC Converter	
UNT1002	RCNVD0013CEZZ	J	DC/DC Converter	
FB1001	RBLN-0062CEZZ	J	Ferrite Bead	AC
FB1002	RBLN-0062CEZZ	J	Ferrite Bead	AC
FB1003	RBLN-0062CEZZ	J	Ferrite Bead	AC
FB1004	RBLN-0062CEZZ	J	Ferrite Bead	AC
FB1005	RBLN-0060CEZZ	J	Ferrite Bead	AC
P1010	QPLGN0428FJZZ	J	Plug, 18-Pin (EA)	AD
P1011	QPLGN0430FJZZ	J	Plug, 20-Pin (EB)	AD
P7302	QPLGN0864TAZZ	J	Plug, 8-Pin (SO)	AD
P7303	QPLGN0174FJZZ	J	Plug, 2-Pin (SP)	AC
	PRDAR1551CEFW	J	Heat Sink	AG
	PSLDM4560CEFW	J	Shield	AH

Ref. No.	Part No.	★	Description	Code

RUNTK9858DE06
IR-DA UNIT

CAPACITORS

C874	RC-KZ0027TAZZ	J	10	16V	Ceramic	AF
C875	VCKYTV1CF225Z	J	2.2	16V	Ceramic	AC
C876	VCKYTV1CF225Z	J	2.2	16V	Ceramic	AC
C890	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C895	VCCCCY1HH820J	J	82p	50V	Ceramic	AA
C896	VCKYTV1CF225Z	J	2.2	16V	Ceramic	AC

RESISTORS

R885	VRS-CY1JF301J	J	300	1/16W	Metal Oxide	AA
R886	VRS-CY1JF100J	J	10	1/16W	Metal Oxide	AA
R896	VRS-CY1JF100J	J	10	1/16W	Metal Oxide	AA
R897	VRS-TX2HF2R2J	J	2.2	1/2W	Metal Oxide	AB

MISCELLANEOUS PARTS

FB801	RBLN-0059CEZZ	J	Ferrite Bead	AB
P802	QPLGZ0556CEZZ	J	Plug, 5-Pin	AC
RMC7503	RRMCK0027CEZZ	J	R/C Receiver	AW

RUNTK0667CEZZ
INLET UNIT

PACKAGED CIRCUIT

⚠ Z701	95C0D758A4710	J	ENC471	AK

COILS

⚠ L701	95C0L129R2420	J	Inductor, FK-070E-2420H	
⚠ L702	95C0L129R2420	J	Inductor, FK-070E-2420H	
⚠ L704	95C0L124R131	J	Inductor, HK-08S060-1310	AV
⚠ L705	95C0L124R131	J	Inductor, HK-08S060-1310	AV

CAPACITORS

⚠ C701	95C0C245Q2240	J	0.22	AC250V	Film	AL
⚠ C703	95C0C1H8Q2220	J	2200p	250V	Ceramic	AH
⚠ C704	95C0C1H8Q2220	J	2200p	250V	Ceramic	AH
⚠ C705	95C0C245Q2240	J	0.22	AC250V	Film	AL
⚠ C720	95C0C245Q2240	J	0.22	AC250V	Film	AL

RESISTORS

⚠ R701	95C0R105C2740	J	270K	1W	AF
⚠ R749	95C0R379C1560	J	15M	1W	AL

SWITCH

⚠ SW701	95C0K138A0010	J	AC Switch SDDFC3-3B-2	AW

MISCELLANEOUS PARTS

⚠ F701	95C0K718A5R00	J	Fuse 5A 250V	AK
	95C0M851A0010	J	Fuse Holder	AE
⚠ CN701	95C0K212S0010	J	AC Inlet AP-300-3-B-6	AR
CN702	95C0K207B0020	J	Connector, 3-pin S2P3-VH	AH

Ref. No.	Part No.	★	Description	Code

CDENC0285CE02
POWER UNIT

INTEGRATED CIRCUITS

⚠ IC702	95C0H502A0160	J	H8D2877	AZ
IC703	95C0H130A0120	J	TA78M12S	AQ
IC704	95C0H195A0010	J	NJM431U	AM
IC751	95C0H195A0010	J	NJM431U	AM
IC7701	95C0H142A0010	J	FA5331M	BB

TRANSISTORS

⚠ Q701	95C0T643A0010	J	2SK2698	AY
Q702	95C0T397A0010	J	2SC4672	AM
Q703	95C0T391A0050	J	2SC2712	AF
Q704	95C0T645A0020	J	2SK2717	AW
Q705	95C0T391A0050	J	2SC2712	AF
Q707	95C0T253A0010	J	2SB1488	AN
Q751	95C0T190A0020	J	2SA1313	AH
Q752	95C0T391A0050	J	2SC2712	AF

DIODES

D701	95C0D119A0060	J	Diode D5SBA60	AS
D702	95C0D223B0060	J	Diode YG912S6	AW
D703	95C0D266A0060	J	Diode ERA83-006	AH
D707	95C0D295A0080	J	Diode 1SS355	AE
D708	95C0D490A0410	J	Zener Diode RLZ12	AF
D709	95C0D264A0020	J	Diode ERB44-02	AG
D710	95C0D490A0150	J	Zener Diode RLZ5.6	AE
D711	95C0D157A0060	J	Diode ERA15-06	AE
D712	95C0D490A0730	J	Zener Diode RLZ30	AE
D713	95C0D490A0730	J	Zener Diode RLZ30	AE
D714	95C0D490A0730	J	Zener Diode RLZ30	AE
D715	95C0D267A0060	J	Diode ERA22-06	AG
D716	95C0D490A0150	J	Zener Diode RLZ5.6	AE
D717	95C0D295A0080	J	Diode 1SS355	AE
D718	95C0D157A0060	J	Diode ERA15-06	AE
D719	95C0D490A0730	J	Zener Diode RLZ30	AE
D720	95C0D264A0100	J	Diode ERB44-10	AL
D751	95C0D273A0040	J	Diode 1R5GH45	AL
D752	95C0D249A0010	J	Diode ERC91-02	AP
D753	95C0D224B0060	J	Diode YG802C06R	AR
D755	95C0D266A0060	J	Diode ERA83-006	AH
D756	95C0D490A0630	J	Zener Diode RLZ24	AE
D757	95C0D490A0230	J	Zener Diode RLZ7.5	AE
D758	95C0D295A0080	J	Diode 1SS355	AE
D759	95C0D295A0080	J	Diode 1SS355	AE
D760	95C0D461A1900	J	Zener Diode HZ-18	AH
⚠ TRA701	95C0D513A6060	J	Triode AC Semiconductor Switch SM6JZ47	AR

PACKAGED CIRCUITS

⚠ PC701	95C0H723A0010	J	Photo Coupler PC123	AM
⚠ PC702	95C0H723A0010	J	Photo Coupler PC123	AM
⚠ PC703	95C0H723A0010	J	Photo Coupler PC123	AM
⚠ PC704	95C0H723A0010	J	Photo Coupler PC123	AM

COIL AND TRANSFORMER

L703	95C0L122R6720	J	Inductor HKF12-080-6720R	BC
⚠ T701	95C0L200J03420	J	Transformer 2J034	BU

CONTROLS

VR701	95C0R853E1020	J	1k	1/8W	AH
VR751	95C0R853E1020	J	1k	1/8W	AH

CAPACITORS

C706	95C0C238N4740	J	0.47	630V	Film	AQ
C707	95C0C3J6M1510	J	150	400V	Electrolytic	AY
C708	95C0C195E4720	J	4700p	50V	Ceramic	AC
C709	95C0C1A1S2210	J	220p	2kV	Ceramic	AF
C710	95C0C195E2230	J	0.022	50V	Ceramic	AD
C711	95C0C194E2210	J	220p	50V	Ceramic	AD
C713	95C0C195E4720	J	4700p	50V	Ceramic	AC
C714	95C0C162E1040	J	0.1	50V	Ceramic	AE
C715	95C0C373D8200	J	82	35V	Electrolytic	AF

CDENC0285CE02

POWER UNIT (Cotinued)

Ref. No.	Part No.	★	Description			Code
C718	95C0C195E4720	J	4700p	50V	Ceramic	AC
C719	95C0C251E3330	J	0.033	50V	Film	AD
C721	95C0C1A9R2210	J	220p	1kV	Ceramic	AF
C722	95C0C1A9R2210	J	220p	1kV	Ceramic	AF
C725	95C0C1A9R4710	J	470p	1kV	Ceramic	AF
C726	95C0C195C1040	J	0.1	25V	Ceramic	AD
C727	95C0C195C1040	J	0.1	25V	Ceramic	AD
C728	95C0C1Q0A1060	J	10	6.3V	Ceramic	AQ
C751	95C0C3A0D3310	J	330	35V	Electrolytic	AM
C752	95C0C3A0D3310	J	330	35V	Electrolytic	AM
C753	95C0C3L2B1520	J	1500	16V	Electrolytic	AQ
C754	95C0C3L2B1520	J	1500	16V	Electrolytic	AQ
C756	95C0C3A0B3310	J	330	16V	Electrolytic	AK
C757	95C0C195C1040	J	0.1	25V	Ceramic	AD
C758	95C0C373D8200	J	82	35V	Electrolytic	AF
C761	95C0C1A9R2210	J	220p	1kV	Ceramic	AF
C762	95C0C1A9R2210	J	220p	1kV	Ceramic	AF
C764	95C0C1A9R2210	J	220p	1kV	Ceramic	AF
C765	95C0C1A9R2210	J	220p	1kV	Ceramic	AF
C766	95C0C3A0B3310	J	330	16V	Electrolytic	AK
C7701	95C0C194E4710	J	470p	50V	Ceramic	AC
C7702	95C0C194E1010	J	100p	50V	Ceramic	AC
C7703	95C0C195C1040	J	0.1	25V	Ceramic	AD
C7704	95C0C195C1040	J	0.1	25V	Ceramic	AD
C7705	95C0C194E3310	J	330p	50V	Ceramic	AC
C7706	95C0C195E1030	J	0.01	50V	Ceramic	AC
C7708	95C0C195C1040	J	0.1	25V	Ceramic	AD

RESISTORS

R702	95C0R390T2240	J	220k	1/4W	AC
R703	95C0R390T2240	J	220k	1/4W	AC
R704	95C0R390T2240	J	220k	1/4W	AC
R705	95C0R3Q0V1230	J	12k	1/8W	AB
R706	95C0R3Q0V1030	J	10k	1/8W	AB
R707	95C0R3Q0V1030	J	10k	1/8W	AB
R708	95C0R3Q0V3330	J	33k	1/8W	AB
R709	95C0R390T2240	J	220k	1/4W	AC
R710	95C0R391T1840	J	180k	1/4W	AC
R711	95C0R391T1840	J	180k	1/4W	AC
R712	95C0R3Q3V2220	J	2.2k	1/10W	AC
R713	95C0R391T1840	J	180k	1/4W	AC
R714	95C0R391T1840	J	180k	1/4W	AC
R715	95C0R391T1840	J	180k	1/4W	AC
R716	95C0R516FR100	J	0.1	3W	AN
R718	95C0R390T1010	J	100	1/4W	AC
R719	95C0R390T1000	J	10	1/4W	AC
R720	95C0R522F1000	J	10	5W	AQ
R721	95C0R390T1020	J	1k	1/4W	AC
R722	95C0R451C1000	J	10	1W	AD
R723	95C0R451C1000	J	10	1W	AD
R724	95C0R390T4710	J	470	1/4W	AD
R725	95C0R390T3R90	J	3.9	1/4W	AD
R726	95C0R390T1020	J	1k	1/4W	AC
R727	95C0R390T3330	J	33k	1/4W	AC
R728	95C0R390T3340	J	330k	1/4W	AC
R729	95C0R390T0000	J	0	1/4W	AC
R730	95C0R390T5620	J	5.6k	1/4W	AC
R732	95C0R390T1810	J	180	1/4W	AD
R733	95C0R3Q0V3330	J	33k	1/8W	AB
R734	95C0R3Q1V4320	J	4.3k	1/10W	AC
R735	95C0R3Q0V4710	J	470	1/8W	AB
R736	95C0R3Q0V3340	J	330k	1/8W	AB
R737	95C0R3Q0V5620	J	5.6k	1/8W	AB
R740	95C0R390T1830	J	18k	1/4W	AC
R741	95C0R3Q1V1030	J	10k	1/8W	AC
R742	95C0R390T3320	J	3.3k	1/4W	AC
R743	95C0R390T3340	J	330k	1/4W	AC
R744	95C0R390T3340	J	330k	1/4W	AC
R745	95C0R390T1010	J	100	1/4W	AC
R746	95C0R109D1840	J	180k	2W	AK
R747	95C0R3Q3V2220	J	2.2k	1/10W	AC
R748	95C0R3Q3V1230	J	12k	1/10W	AC
R751	95C0R3Q0V1020	J	1k	1/8W	AB
R753	95C0R390T0000	J	0	1/4W	AC
R754	95C0R390T1020	J	1k	1/4W	AC
R755	95C0R390T3320	J	3.3k	1/4W	AC
R756	95C0R3Q0V1020	J	1k	1/8W	AB
R757	95C0R3Q0V1020	J	1k	1/8W	AB
R758	95C0R390T1810	J	180	1/4W	AD
R759	95C0R390T2230	J	22k	1/4W	AC
R760	95C0R3Q0V4700	J	47	1/8W	AB
R761	95C0R3Q0V1020	J	1k	1/8W	AB
R762	95C0R3Q0V1030	J	10k	1/8W	AB
R763	95C0R3Q1V2720	J	2.7k	1/8W	AC
R764	95C0R3Q1V1820	J	1.8k	1/8W	AC
R765	95C0R390T3310	J	330	1/4W	AC
R766	95C0R390T4720	J	4.7k	1/4W	AC
R768	95C0R390T2230	J	22k	1/4W	AC
R769	95C0R390T2230	J	22k	1/4W	AC
R7701	95C0R3Q0V8240	J	820k	1/8W	AB
R7703	95C0R3Q1V2220	J	2.2k	1/8W	AC
R7704	95C0R3Q0V1030	J	10k	1/8W	AB
R7705	95C0R3Q0V4740	J	470k	1/8W	AB
R7707	95C0R3Q3V2220	J	2.2k	1/10W	AC
R7709	95C0R3Q0V2200	J	22	1/8W	AB
R7710	95C0R3Q0V2240	J	220k	1/8W	AB
R7711	95C0R3Q1V2230	J	22k	1/8W	AC
R7712	95C0R3Q3V2720	J	2.7k	1/10W	AC
NTC751	95C0D726A1030	J	NTC Thermistor NTH4G33B		AM
PTC701	95C0D802A1010	J	PTC Thermistor		AP

MISCELLANEOUS PARTS

BEA701	95C0L551A0010	J	Ferrite Bead BL02RN1-R62	AD
BEA703	95C0L551A0020	J	Ferrite Bead RL02RN2-R62	AE
ICP751	95C0K759AR800	J	Fuse 0.8A	AM
CN703	95C0WPS20790	J	Wire ELP-02V	AT
CN704	95C0WPS20720	J	Wire VHR-4N	AV
CN706	95C0K231B0120	J	Connector 12MQ-ST-L	AM
CN707	95C0K232B0120	J	Connector B12P-MQ-C	AM
CN710	95C0K231B0100	J	Connector 10MQ-ST-L	AL
CN711	95C0K232B0100	J	Connector B10P-MQ- C	AL
CN751	95C0K222B0240	J	Connector S24B-PHDSS	AP
CN752	95C0K248A0030	J	Connector B3B-EH-A	AF
CN753	95C0K262A0080	J	Connector 08JQ-ST	AP
CN754	95C0K225A0070	J	Connector B8B-XH-A	AM
CN755	95C0K262A0030	J	Connector 03JQ-ST	AL
CN756	95C0K225A0020	J	Connector B3B-XH-A	AG

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INTEGRATED CIRCUITS

Ref. No.	Part No.	★	Description	Code
IC8001	RH-iX3270CEZZ	J	HD6417709	BH
IC8002	9DK001-15061	J	PST6001M	AL
IC8003	9DK001-11016	J	AT24C64N-10SC-2.7	AT
IC8004	9DK001-15052	J	M52722SP	AX
IC8005	9DK001-15027	J	NJM3403AV	AQ
IC8006	9DK001-12055	J	TC7WH241FU	AN
IC8007	9DK001-15061	J	PST6001M	AL
IC8009	9DK001-15048	J	CXA3026AQ	BR
IC8010	9DK001-15048	J	CXA3026AQ	BR
IC8011	9DK001-15048	J	CXA3026AQ	BR
IC8012	9DK001-12062	J	SN74CBT3244PW	AT
IC8013	9DK001-15053	J	TL431CPS	AL
IC8014	9DK001-15027	J	NJM3403AV	AQ
IC8015	9DK001-15028	J	ICS1522M	BS
IC8016	9DK001-12062	J	SN74CBT3244PW	AT
IC8017	9DK001-12062	J	SN74CBT3244PW	AT
IC8019	9DK001-15060	J	PST623XW	AP
IC8020	RH-iX3342CEZZ	J	GMZ2	BT
IC8021	9DK001-16063	J	MB88346BPFV	AR
IC8022	9DK001-12061	J	TC74HCT244AF	AQ
IC8023	9DK001-15012	J	LM6361M	AY
IC8024	9DK001-15053	J	TL431CPS	AL
IC8025	RH-IX3249CEZZ	J	MB87J1100	
IC8026	9DK001-12056	J	TC74LVX02FT	AL
IC8027	RH-iX3271CEZZ	J	LH28F320S3NS-L11	BL
IC8028	9DK001-11017	J	MSM51V18165D-60TS-K	BB
IC8029	RH-IX3250CEZZ	J	MB87J1110	
IC8030	9DK001-12062	J	SN74CBT3244PW	AT
IC8031	9DK001-12062	J	SN74CBT3244PW	AT
IC8032	9DK001-12062	J	SN74CBT3244PW	AT
IC8033	RH-iX3269CEZZ	J	RY5FD3KC	AW
IC8034	9DK001-15008	J	TL712CPS	AP
IC8035	9DK001-11018	J	MB81F161622B-70	BD
IC8036	9DK001-15008	J	TL712CPS	AP
IC8038	9DK001-11018	J	MB81F161622B-70	BD
IC8039	9DK001-11018	J	MB81F161622B-70	BD
IC8040	9DK001-15062	J	LM4040CIM3-4.1	AS
IC8046	9DK001-11019	J	MB81F161622B-80	BC
IC8048	RH-iX3293CEZZ	J	GA3	BC
IC8051	9DK001-15065	J	CXD2309Q	BC
IC8052	9DK001-12055	J	TC7WH241FU	AN
IC8053	9DK001-12057	J	TC74LVX86FT	AM
IC8054	9DK001-12055	J	TC7WH241FU	AN
IC8055	9DK001-12063	J	TC74LVX174FT	AL
IC8056	9DK001-12058	J	HD74LVC00T	AK
IC8057	9DK001-12059	J	TC74LCX04FT	AM
IC8060	9DK001-12056	J	TC74LVX02FT	AL
IC8062	9DK001-15038	J	PQ05TZ11	AR

TRANSISTORS

Ref. No.	Part No.	★	Description	Code
Q8001	9DK001-20024	J	HN1C01F	AF
Q8004	9DK001-20022	J	2SC2712 (Y)	AD
Q8005	9DK001-20015	J	2SC3735 (B35)	AF
Q8006	9DK001-20022	J	2SC2712 (Y)	AD
Q8007	9DK001-20015	J	2SC3735 (B35)	AF
Q8008	9DK001-20022	J	2SC2712 (Y)	AD
Q8009	9DK001-20015	J	2SC3735 (B35)	AF
Q8010	9DK001-20012	J	2SA1037AKQ	AE
Q8011	9DK001-20011	J	2SC2412KQ	AE
Q8012	9DK001-20025	J	IMB3A	AB

DIODES

Ref. No.	Part No.	★	Description	Code
D8001	9DK001-30001	J	1SS193 (F3)	AC
D8002	9DK001-30001	J	1SS193 (F3)	AC
D8003	9DK001-30001	J	1SS193 (F3)	AC
D8004	9DK001-30001	J	1SS193 (F3)	AC
D8005	9DK001-30001	J	1SS193 (F3)	AC

PACKAGED CIRCUITS

Ref. No.	Part No.	★	Description	Code
X8001	9DK001-80012	J	Crystal, 6MHz	AN
X8002	9DK001-80015	J	Crystal, 32.768kHz	AS
X8003	9DK001-80011	J	Crystal, 1.8432MHz	AS
X8004	9DK001-80013	J	Crystal, 22.165MHz	AN
X8005	9DK001-80014	J	Crystal, 16.25MHz	AN

FILTERS

Ref. No.	Part No.	★	Description	Code
FL8002	9DK001-82020	J	Filter, BMK351	AG
FL8003	9DK001-82020	J	Filter, BMK351	AG
FL8004	9DK001-82020	J	Filter, BMK351	AG
FL8005	9DK001-82020	J	Filter, BMK351	AG
FL8006	9DK001-82020	J	Filter, BMK351	AG
FL8009	9DK001-82020	J	Filter, BMK351	AG
FL8010	9DK001-82020	J	Filter, BMK351	AG
FL8011	9DK001-82020	J	Filter, BMK351	AG
FL8012	9DK001-82020	J	Filter, BMK351	AG
FL8013	9DK001-82020	J	Filter, BMK351	AG
FL8014	9DK001-82020	J	Filter, BMK351	AG
FL8015	9DK001-82020	J	Filter, BMK351	AG
FL8016	9DK001-82020	J	Filter, BMK351	AG
FL8020	9DK001-82020	J	Filter, BMK351	AG
FL8021	9DK001-82020	J	Filter, BMK351	AG
FL8022	9DK001-82020	J	Filter, BMK351	AG
FL8023	9DK001-82020	J	Filter, BMK351	AG
FL8026	9DK001-82020	J	Filter, BMK351	AG
FL8027	9DK001-82020	J	Filter, BMK351	AG
FL8028	9DK001-82020	J	Filter, BMK351	AG
FL8029	9DK001-82020	J	Filter, BMK351	AG
FL8030	9DK001-82020	J	Filter, BMK351	AG
FL8031	9DK001-82020	J	Filter, BMK351	AG
FL8032	9DK001-82020	J	Filter, BMK351	AG
FL8034	9DK001-82020	J	Filter, BMK351	AG
FL8035	9DK001-82020	J	Filter, BMK351	AG
FL8036	9DK001-82020	J	Filter, BMK351	AG
FL8037	9DK001-82020	J	Filter, BMK351	AG
FL8039	9DK001-82020	J	Filter, BMK351	AG
FL8040	9DK001-82020	J	Filter, BMK351	AG
FL8041	9DK001-82020	J	Filter, BMK351	AG
FL8042	9DK001-82020	J	Filter, BMK351	AG
FL8047	9DK001-82020	J	Filter, BMK351	AG
FL8048	9DK001-82020	J	Filter, BMK351	AG
FL8049	9DK001-82020	J	Filter, BMK351	AG
FL8050	9DK001-82020	J	Filter, BMK351	AG
FL8051	9DK001-82020	J	Filter, BMK351	AG
FL8053	9DK001-82020	J	Filter, BMK351	AG
FL8054	9DK001-82020	J	Filter, BMK351	AG
FL8055	9DK001-82020	J	Filter, BMK351	AG
FL8056	9DK001-82020	J	Filter, BMK351	AG
FL8057	9DK001-82020	J	Filter, BMK351	AG
FL8058	9DK001-82020	J	Filter, BMK351	AG

CAPACITORS

Ref. No.	Part No.	★				Code
C8001	9DK001-42094	J	0.1	25V	Ceramic	AC
C8002	9DK001-42094	J	0.1	25V	Ceramic	AC
C8004	9DK001-42094	J	0.1	25V	Ceramic	AC
C8005	9DK001-42094	J	0.1	25V	Ceramic	AC
C8006	9DK001-42096	J	0.01	50V	Ceramic	AC
C8007	9DK001-42096	J	0.01	50V	Ceramic	AC
C8008	9DK001-42096	J	0.01	50V	Ceramic	AC
C8009	9DK001-42096	J	0.01	50V	Ceramic	AC
C8012	9DK001-42103	J	15p	50V	Ceramic	AC
C8013	9DK001-42103	J	15p	50V	Ceramic	AC
C8014	9DK001-42096	J	0.01	50V	Ceramic	AC
C8015	9DK001-42103	J	15p	50V	Ceramic	AC
C8016	9DK001-42103	J	15p	50V	Ceramic	AC
C8017	9DK001-42096	J	0.01	50V	Ceramic	AC
C8018	9DK001-42096	J	0.01	50V	Ceramic	AC
C8019	9DK001-42104	J	470p	50V	Ceramic	AC
C8020	9DK001-42104	J	470p	50V	Ceramic	AC
C8021	9DK001-42096	J	0.01	50V	Ceramic	AC
C8022	9DK001-42096	J	0.01	50V	Ceramic	AC
C8023	9DK001-42096	J	0.01	50V	Ceramic	AC
C8024	9DK001-40077	J	10	16V	Electrolytic	AF
C8025	9DK001-42096	J	0.01	50V	Ceramic	AC
C8026	9DK001-42096	J	0.01	50V	Ceramic	AC
C8027	9DK001-42096	J	0.01	50V	Ceramic	AC

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Ref. No.	Part No.	★			Description	Code
C8028	9DK001-42096	J	0.01	50V	Ceramic	AC
C8029	9DK001-42096	J	0.01	50V	Ceramic	AC
C8030	9DK001-42105	J	0.047	50V	Ceramic	AC
C8031	9DK001-42094	J	0.1	25V	Ceramic	AC
C8032	9DK001-42094	J	0.1	25V	Ceramic	AC
C8033	9DK001-42094	J	0.1	25V	Ceramic	AC
C8034	9DK001-42096	J	0.01	50V	Ceramic	AC
C8035	9DK001-42096	J	0.01	50V	Ceramic	AC
C8036	9DK001-42096	J	0.01	50V	Ceramic	AC
C8037	9DK001-42096	J	0.01	50V	Ceramic	AC
C8038	9DK001-42096	J	0.01	50V	Ceramic	AC
C8039	9DK001-42094	J	0.1	25V	Ceramic	AC
C8040	9DK001-42096	J	0.01	50V	Ceramic	AC
C8041	9DK001-42096	J	0.01	50V	Ceramic	AC
C8042	9DK001-42096	J	0.01	50V	Ceramic	AC
C8043	9DK001-42096	J	0.01	50V	Ceramic	AC
C8044	9DK001-42096	J	0.01	50V	Ceramic	AC
C8045	9DK001-42096	J	0.01	50V	Ceramic	AC
C8046	9DK001-42096	J	0.01	50V	Ceramic	AC
C8047	9DK001-40084	J	47	6.3V	Electrolytic	AM
C8048	9DK001-42096	J	0.01	50V	Ceramic	AC
C8049	9DK001-42096	J	0.01	50V	Ceramic	AC
C8050	9DK001-42096	J	0.01	50V	Ceramic	AC
C8051	9DK001-42096	J	0.01	50V	Ceramic	AC
C8052	9DK001-42096	J	0.01	50V	Ceramic	AC
C8053	9DK001-42096	J	0.01	50V	Ceramic	AC
C8054	9DK001-42096	J	0.01	50V	Ceramic	AC
C8055	9DK001-42096	J	0.01	50V	Ceramic	AC
C8056	9DK001-42096	J	0.01	50V	Ceramic	AC
C8057	9DK001-40070	J	100	16V	Electrolytic	AH
C8058	9DK001-40070	J	100	16V	Electrolytic	AH
C8059	9DK001-40080	J	100	6.3V	Electrolytic	AF
C8060	9DK001-42096	J	0.01	50V	Ceramic	AC
C8061	9DK001-43018	J	10	16V	Tantalum	AH
C8062	9DK001-42096	J	0.01	50V	Ceramic	AC
C8064	9DK001-42096	J	0.01	50V	Ceramic	AC
C8065	9DK001-40075	J	2.2	50V	Electrolytic	AF
C8066	9DK001-42094	J	0.1	25V	Ceramic	AC
C8067	9DK001-42096	J	0.01	50V	Ceramic	AC
C8068	9DK001-42096	J	0.01	50V	Ceramic	AC
C8069	9DK001-43018	J	10	16V	Tantalum	AH
C8070	9DK001-42096	J	0.01	50V	Ceramic	AC
C8072	9DK001-42096	J	0.01	50V	Ceramic	AC
C8073	9DK001-40075	J	2.2	50V	Electrolytic	AF
C8074	9DK001-42094	J	0.1	25V	Ceramic	AC
C8075	9DK001-42096	J	0.01	50V	Ceramic	AC
C8076	9DK001-42096	J	0.01	50V	Ceramic	AC
C8077	9DK001-43018	J	10	16V	Tantalum	AH
C8078	9DK001-42096	J	0.01	50V	Ceramic	AC
C8080	9DK001-42096	J	0.01	50V	Ceramic	AC
C8081	9DK001-40075	J	2.2	50V	Electrolytic	AF
C8082	9DK001-42094	J	0.1	25V	Ceramic	AC
C8083	9DK001-42096	J	0.01	50V	Ceramic	AC
C8084	9DK001-42096	J	0.01	50V	Ceramic	AC
C8085	9DK001-42094	J	0.1	25V	Ceramic	AC
C8086	9DK001-42094	J	0.1	25V	Ceramic	AC
C8087	9DK001-42096	J	0.01	50V	Ceramic	AC
C8088	9DK001-42094	J	0.1	25V	Ceramic	AC
C8089	9DK001-42094	J	0.1	25V	Ceramic	AC
C8090	9DK001-42094	J	0.1	25V	Ceramic	AC
C8091	9DK001-42096	J	0.01	50V	Ceramic	AC
C8092	9DK001-40079	J	47	16V	Electrolytic	AG
C8093	9DK001-42096	J	0.01	50V	Ceramic	AC
C8094	9DK001-40093	J	0.47	50V	Elect. (N.P)	AE
C8095	9DK001-42094	J	0.1	25V	Ceramic	AC
C8096	9DK001-42102	J	2200p	50V	Ceramic	AC
C8097	9DK001-40077	J	10	16V	Electrolytic	AF
C8098	9DK001-42094	J	0.1	25V	Ceramic	AC
C8099	9DK001-42094	J	0.1	25V	Ceramic	AC
C8100	9DK001-42094	J	0.1	25V	Ceramic	AC
C8101	9DK001-42094	J	0.1	25V	Ceramic	AC
C8102	9DK001-40077	J	10	16V	Electrolytic	AF
C8103	9DK001-40077	J	10	16V	Electrolytic	AF
C8104	9DK001-42096	J	0.01	50V	Ceramic	AC
C8105	9DK001-42096	J	0.01	50V	Ceramic	AC
C8106	9DK001-40077	J	10	16V	Electrolytic	AF
C8107	9DK001-40074	J	1	50V	Electrolytic	AF
C8108	9DK001-42094	J	0.1	25V	Ceramic	AC
C8109	9DK001-42094	J	0.1	25V	Ceramic	AC
C8110	9DK001-42094	J	0.1	25V	Ceramic	AC
C8111	9DK001-42096	J	0.01	50V	Ceramic	AC
C8112	9DK001-40077	J	10	16V	Electrolytic	AF
C8113	9DK001-42094	J	0.1	25V	Ceramic	AC
C8114	9DK001-42096	J	0.01	50V	Ceramic	AC
C8115	9DK001-42094	J	0.1	25V	Ceramic	AC
C8116	9DK001-42094	J	0.1	25V	Ceramic	AC
C8117	9DK001-42094	J	0.1	25V	Ceramic	AC
C8118	9DK001-42096	J	0.01	50V	Ceramic	AC
C8119	9DK001-40074	J	1	50V	Electrolytic	AF
C8120	9DK001-42094	J	0.1	25V	Ceramic	AC
C8121	9DK001-42096	J	0.01	50V	Ceramic	AC
C8122	9DK001-40077	J	10	16V	Electrolytic	AF
C8123	9DK001-40077	J	10	16V	Electrolytic	AF
C8124	9DK001-40077	J	10	16V	Electrolytic	AF
C8125	9DK001-42096	J	0.01	50V	Ceramic	AC
C8126	9DK001-42096	J	0.01	50V	Ceramic	AC
C8127	9DK001-42096	J	0.01	50V	Ceramic	AC
C8128	9DK001-42096	J	0.01	50V	Ceramic	AC
C8129	9DK001-40077	J	10	16V	Electrolytic	AF
C8130	9DK001-40077	J	10	16V	Electrolytic	AF
C8131	9DK001-40074	J	1	50V	Electrolytic	AF
C8132	9DK001-40074	J	1	50V	Electrolytic	AF
C8133	9DK001-42094	J	0.1	25V	Ceramic	AC
C8134	9DK001-42094	J	0.1	25V	Ceramic	AC
C8135	9DK001-42094	J	0.1	25V	Ceramic	AC
C8136	9DK001-42094	J	0.1	25V	Ceramic	AC
C8137	9DK001-42094	J	0.1	25V	Ceramic	AC
C8138	9DK001-42094	J	0.1	25V	Ceramic	AC
C8139	9DK001-42096	J	0.01	50V	Ceramic	AC
C8140	9DK001-42096	J	0.01	50V	Ceramic	AC
C8141	9DK001-42094	J	0.1	25V	Ceramic	AC
C8142	9DK001-42096	J	0.01	50V	Ceramic	AC
C8143	9DK001-42094	J	0.1	25V	Ceramic	AC
C8144	9DK001-42096	J	0.01	50V	Ceramic	AC
C8145	9DK001-42094	J	0.1	25V	Ceramic	AC
C8146	9DK001-42094	J	0.1	25V	Ceramic	AC
C8147	9DK001-42094	J	0.1	25V	Ceramic	AC
C8148	9DK001-42094	J	0.1	25V	Ceramic	AC
C8149	9DK001-42094	J	0.1	25V	Ceramic	AC
C8150	9DK001-42094	J	0.1	25V	Ceramic	AC
C8151	9DK001-40074	J	1	50V	Electrolytic	AF
C8152	9DK001-40074	J	1	50V	Electrolytic	AF
C8153	9DK001-42096	J	0.01	50V	Ceramic	AC
C8154	9DK001-42096	J	0.01	50V	Ceramic	AC
C8155	9DK001-42096	J	0.01	50V	Ceramic	AC
C8156	9DK001-42096	J	0.01	50V	Ceramic	AC
C8157	9DK001-42110	J	6800p	50V	Ceramic	AB
C8158	9DK001-42104	J	470p	50V	Ceramic	AC
C8159	9DK001-42096	J	0.01	50V	Ceramic	AC
C8160	9DK001-40077	J	10	16V	Electrolytic	AF
C8161	9DK001-40077	J	10	16V	Electrolytic	AF
C8162	9DK001-42096	J	0.01	50V	Ceramic	AC
C8163	9DK001-42096	J	0.01	50V	Ceramic	AC
C8165	9DK001-42096	J	0.01	50V	Ceramic	AC
C8166	9DK001-42096	J	0.01	50V	Ceramic	AC
C8167	9DK001-42096	J	0.01	50V	Ceramic	AC
C8168	9DK001-42096	J	0.01	50V	Ceramic	AC
C8169	9DK001-42096	J	0.01	50V	Ceramic	AC
C8170	9DK001-42096	J	0.01	50V	Ceramic	AC
C8171	9DK001-42096	J	0.01	50V	Ceramic	AC
C8174	9DK001-42096	J	0.01	50V	Ceramic	AC
C8175	9DK001-42096	J	0.01	50V	Ceramic	AC
C8176	9DK001-42096	J	0.01	50V	Ceramic	AC
C8177	9DK001-42096	J	0.01	50V	Ceramic	AC
C8178	9DK001-42096	J	0.01	50V	Ceramic	AC
C8179	9DK001-42096	J	0.01	50V	Ceramic	AC

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Ref. No.	Part No.	★	Description			Code
C8180	9DK001-42096	J	0.01	50V	Ceramic	AC
C8181	9DK001-42096	J	0.01	50V	Ceramic	AC
C8182	9DK001-42096	J	0.01	50V	Ceramic	AC
C8185	9DK001-42096	J	0.01	50V	Ceramic	AC
C8186	9DK001-42096	J	0.01	50V	Ceramic	AC
C8187	9DK001-42096	J	0.01	50V	Ceramic	AC
C8188	9DK001-40080	J	100	6.3V	Electrolytic	AF
C8189	9DK001-40080	J	100	6.3V	Electrolytic	AF
C8190	9DK001-42096	J	0.01	50V	Ceramic	AC
C8191	9DK001-42096	J	0.01	50V	Ceramic	AC
C8192	9DK001-42096	J	0.01	50V	Ceramic	AC
C8193	9DK001-42096	J	0.01	50V	Ceramic	AC
C8194	9DK001-42096	J	0.01	50V	Ceramic	AC
C8195	9DK001-42096	J	0.01	50V	Ceramic	AC
C8196	9DK001-42096	J	0.01	50V	Ceramic	AC
C8197	9DK001-42096	J	0.01	50V	Ceramic	AC
C8198	9DK001-42096	J	0.01	50V	Ceramic	AC
C8199	9DK001-42094	J	0.1	25V	Ceramic	AC
C8200	9DK001-42096	J	0.01	50V	Ceramic	AC
C8201	9DK001-42096	J	0.01	50V	Ceramic	AC
C8202	9DK001-42096	J	0.01	50V	Ceramic	AC
C8205	9DK001-42096	J	0.01	50V	Ceramic	AC
C8206	9DK001-42096	J	0.01	50V	Ceramic	AC
C8207	9DK001-42096	J	0.01	50V	Ceramic	AC
C8208	9DK001-42096	J	0.01	50V	Ceramic	AC
C8209	9DK001-42096	J	0.01	50V	Ceramic	AC
C8210	9DK001-42096	J	0.01	50V	Ceramic	AC
C8211	9DK001-42096	J	0.01	50V	Ceramic	AC
C8212	9DK001-42096	J	0.01	50V	Ceramic	AC
C8213	9DK001-42096	J	0.01	50V	Ceramic	AC
C8214	9DK001-42096	J	0.01	50V	Ceramic	AC
C8215	9DK001-42096	J	0.01	50V	Ceramic	AC
C8216	9DK001-42103	J	15p	50V	Ceramic	AC
C8217	9DK001-42096	J	0.01	50V	Ceramic	AC
C8218	9DK001-42096	J	0.01	50V	Ceramic	AC
C8219	9DK001-42096	J	0.01	50V	Ceramic	AC
C8220	9DK001-42103	J	15p	50V	Ceramic	AC
C8221	9DK001-42096	J	0.01	50V	Ceramic	AC
C8222	9DK001-42096	J	0.01	50V	Ceramic	AC
C8223	9DK001-42096	J	0.01	50V	Ceramic	AC
C8224	9DK001-42096	J	0.01	50V	Ceramic	AC
C8225	9DK001-42096	J	0.01	50V	Ceramic	AC
C8226	9DK001-40080	J	100	6.3V	Electrolytic	AF
C8227	9DK001-42096	J	0.01	50V	Ceramic	AC
C8228	9DK001-42096	J	0.01	50V	Ceramic	AC
C8229	9DK001-42096	J	0.01	50V	Ceramic	AC
C8230	9DK001-42096	J	0.01	50V	Ceramic	AC
C8231	9DK001-42096	J	0.01	50V	Ceramic	AC
C8232	9DK001-42096	J	0.01	50V	Ceramic	AC
C8233	9DK001-42096	J	0.01	50V	Ceramic	AC
C8234	9DK001-42096	J	0.01	50V	Ceramic	AC
C8238	9DK001-40080	J	100	6.3V	Electrolytic	AF
C8239	9DK001-40080	J	100	6.3V	Electrolytic	AF
C8240	9DK001-42096	J	0.01	50V	Ceramic	AC
C8241	9DK001-42096	J	0.01	50V	Ceramic	AC
C8242	9DK001-42096	J	0.01	50V	Ceramic	AC
C8243	9DK001-42096	J	0.01	50V	Ceramic	AC
C8244	9DK001-42096	J	0.01	50V	Ceramic	AC
C8245	9DK001-42096	J	0.01	50V	Ceramic	AC
C8246	9DK001-42096	J	0.01	50V	Ceramic	AC
C8247	9DK001-42096	J	0.01	50V	Ceramic	AC
C8248	9DK001-40080	J	100	6.3V	Electrolytic	AF
C8249	9DK001-42094	J	0.1	25V	Ceramic	AC
C8250	9DK001-42096	J	0.01	50V	Ceramic	AC
C8251	9DK001-42096	J	0.01	50V	Ceramic	AC
C8252	9DK001-40080	J	100	6.3V	Electrolytic	AF
C8253	9DK001-42094	J	0.1	25V	Ceramic	AC
C8254	9DK001-42096	J	0.01	50V	Ceramic	AC
C8255	9DK001-40080	J	100	6.3V	Electrolytic	AF
C8256	9DK001-42094	J	0.1	25V	Ceramic	AC
C8257	9DK001-40080	J	100	6.3V	Electrolytic	AF
C8258	9DK001-42094	J	0.1	25V	Ceramic	AC
C8259	9DK001-42103	J	15p	50V	Ceramic	AC
C8260	9DK001-42096	J	0.01	50V	Ceramic	AC
C8261	9DK001-42096	J	0.01	50V	Ceramic	AC
C8262	9DK001-42096	J	0.01	50V	Ceramic	AC
C8263	9DK001-40080	J	100	6.3V	Electrolytic	AF
C8264	9DK001-42094	J	0.1	25V	Ceramic	AC
C8265	9DK001-42103	J	15p	50V	Ceramic	AC
C8266	9DK001-42096	J	0.01	50V	Ceramic	AC
C8267	9DK001-42096	J	0.01	50V	Ceramic	AC
C8268	9DK001-42096	J	0.01	50V	Ceramic	AC
C8269	9DK001-40079	J	47	16V	Electrolytic	AG
C8270	9DK001-42094	J	0.1	25V	Ceramic	AC
C8271	9DK001-42096	J	0.01	50V	Ceramic	AC
C8272	9DK001-42096	J	0.01	50V	Ceramic	AC
C8273	9DK001-42096	J	0.01	50V	Ceramic	AC
C8274	9DK001-40081	J	22	6.3V	Electrolytic	AF
C8275	9DK001-42094	J	0.1	25V	Ceramic	AC
C8276	9DK001-42096	J	0.01	50V	Ceramic	AC
C8277	9DK001-42096	J	0.01	50V	Ceramic	AC
C8278	9DK001-42096	J	0.01	50V	Ceramic	AC
C8279	9DK001-42096	J	0.01	50V	Ceramic	AC
C8280	9DK001-42096	J	0.01	50V	Ceramic	AC
C8281	9DK001-42096	J	0.01	50V	Ceramic	AC
C8282	9DK001-42096	J	0.01	50V	Ceramic	AC
C8283	9DK001-42096	J	0.01	50V	Ceramic	AC
C8284	9DK001-42096	J	0.01	50V	Ceramic	AC
C8285	9DK001-42096	J	0.01	50V	Ceramic	AC
C8286	9DK001-42096	J	0.01	50V	Ceramic	AC
C8289	9DK001-42096	J	0.01	50V	Ceramic	AC
C8294	9DK001-42096	J	0.01	50V	Ceramic	AC
C8295	9DK001-42096	J	0.01	50V	Ceramic	AC
C8296	9DK001-42096	J	0.01	50V	Ceramic	AC
C8297	9DK001-42096	J	0.01	50V	Ceramic	AC
C8298	9DK001-42096	J	0.01	50V	Ceramic	AC
C8299	9DK001-42096	J	0.01	50V	Ceramic	AC
C8300	9DK001-42096	J	0.01	50V	Ceramic	AC
C8301	9DK001-42096	J	0.01	50V	Ceramic	AC
C8304	9DK001-42096	J	0.01	50V	Ceramic	AC
C8305	9DK001-42096	J	0.01	50V	Ceramic	AC
C8306	9DK001-42096	J	0.01	50V	Ceramic	AC
C8307	9DK001-42096	J	0.01	50V	Ceramic	AC
C8308	9DK001-42096	J	0.01	50V	Ceramic	AC
C8309	9DK001-42096	J	0.01	50V	Ceramic	AC
C8310	9DK001-42096	J	0.01	50V	Ceramic	AC
C8311	9DK001-42096	J	0.01	50V	Ceramic	AC
C8316	9DK001-42096	J	0.01	50V	Ceramic	AC
C8317	9DK001-42096	J	0.01	50V	Ceramic	AC
C8318	9DK001-42096	J	0.01	50V	Ceramic	AC
C8319	9DK001-42096	J	0.01	50V	Ceramic	AC
C8320	9DK001-42096	J	0.01	50V	Ceramic	AC
C8321	9DK001-42096	J	0.01	50V	Ceramic	AC
C8322	9DK001-42096	J	0.01	50V	Ceramic	AC
C8323	9DK001-42096	J	0.01	50V	Ceramic	AC
C8324	9DK001-42096	J	0.01	50V	Ceramic	AC
C8325	9DK001-42096	J	0.01	50V	Ceramic	AC
C8326	9DK001-42096	J	0.01	50V	Ceramic	AC
C8327	9DK001-42096	J	0.01	50V	Ceramic	AC
C8328	9DK001-42096	J	0.01	50V	Ceramic	AC
C8329	9DK001-42096	J	0.01	50V	Ceramic	AC
C8330	9DK001-42096	J	0.01	50V	Ceramic	AC
C8331	9DK001-42096	J	0.01	50V	Ceramic	AC
C8332	9DK001-42096	J	0.01	50V	Ceramic	AC
C8336	9DK001-42096	J	0.01	50V	Ceramic	AC
C8337	9DK001-40077	J	10	16V	Electrolytic	AF
C8339	9DK001-42094	J	0.1	25V	Ceramic	AC
C8341	9DK001-42096	J	0.01	50V	Ceramic	AC
C8342	9DK001-42094	J	0.1	25V	Ceramic	AC
C8343	9DK001-42094	J	0.1	25V	Ceramic	AC
C8344	9DK001-40083	J	10	6.3V	Electrolytic	AH
C8345	9DK001-42094	J	0.1	25V	Ceramic	AC
C8346	9DK001-42096	J	0.01	50V	Ceramic	AC
C8347	9DK001-42096	J	0.01	50V	Ceramic	AC
C8348	9DK001-42096	J	0.01	50V	Ceramic	AC
C8349	9DK001-42096	J	0.01	50V	Ceramic	AC

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Ref. No.	Part No.	★			Description	Code
C8350	9DK001-42096	J	0.01	50V	Ceramic	AC
C8354	9DK001-42096	J	0.01	50V	Ceramic	AC
C8355	9DK001-42101	J	220p	50V	Ceramic	AC
C8359	9DK001-42094	J	0.1	25V	Ceramic	AC

RESISTORS

FL8001	9DK001-50110	J	0	1/10W	Chip 2125	AB
FL8007	9DK001-50088	J	10	1/4W	Chip 3216	AB
FL8008	9DK001-50088	J	10	1/4W	Chip 3216	AB
FL8024	9DK001-50110	J	0	1/10W	Chip 2125	AB
FL8025	9DK001-50110	J	0	1/10W	Chip 2125	AB
FL8033	9DK001-50110	J	0	1/10W	Chip 2125	AB
FL8038	9DK001-50110	J	0	1/10W	Chip 2125	AB
FL8043	9DK001-50110	J	0	1/10W	Chip 2125	AB
FL8044	9DK001-50110	J	0	1/10W	Chip 2125	AB
FL8045	9DK001-50110	J	0	1/10W	Chip 2125	AB
FL8046	9DK001-50110	J	0	1/10W	Chip 2125	AB
R8001	9DK001-50165	J	100	1/16W	Chip 1608	AA
R8002	9DK001-50165	J	100	1/16W	Chip 1608	AA
R8003	9DK001-50165	J	100	1/16W	Chip 1608	AA
R8004	9DK001-50165	J	100	1/16W	Chip 1608	AA
R8005	9DK001-50163	J	68	1/16W	Chip 1608	AA
R8006	9DK001-51030	J	10k	1/16W	Resistor Array	AD
R8007	9DK001-50209	J	27k	1/16W	Chip 1608	AA
R8009	9DK001-50204	J	150	1/16W	Chip 1608	AA
R8010	9DK001-51030	J	10k	1/16W	Resistor Array	AD
R8011	9DK001-51030	J	10k	1/16W	Resistor Array	AD
R8012	9DK001-50207	J	6.8k	1/16W	Chip 1608	AA
R8013	9DK001-50207	J	6.8k	1/16W	Chip 1608	AA
R8014	9DK001-51030	J	10k	1/16W	Resistor Array	AD
R8015	9DK001-51030	J	10k	1/16W	Resistor Array	AD
R8016	9DK001-50198	J	1.69k	1/16W	Chip 1608	AB
R8017	9DK001-50210	J	33k	1/16W	Chip 1608	AA
R8018	9DK001-50199	J	2.15k	1/16W	Chip 1608	AB
R8019	9DK001-51030	J	10k	1/16W	Resistor Array	AD
R8020	9DK001-50113	J	0	1/4W	Chip 3216	AB
R8021	9DK001-50113	J	0	1/4W	Chip 3216	AB
R8022	9DK001-50185	J	10k	1/16W	Chip 1608	AA
R8023	9DK001-50185	J	10k	1/16W	Chip 1608	AA
R8025	9DK001-50165	J	100	1/16W	Chip 1608	AA
R8027	9DK001-50209	J	27k	1/16W	Chip 1608	AA
R8028	9DK001-50183	J	4.7k	1/16W	Chip 1608	AA
R8033	9DK001-51030	J	10k	1/16W	Resistor Array	AD
R8034	9DK001-51030	J	10k	1/16W	Resistor Array	AD
R8035	9DK001-51030	J	10k	1/16W	Resistor Array	AD
R8036	9DK001-51030	J	10k	1/16W	Resistor Array	AD
R8037	9DK001-51030	J	10k	1/16W	Resistor Array	AD
R8038	9DK001-51030	J	10k	1/16W	Resistor Array	AD
R8040	9DK001-50163	J	68	1/16W	Chip 1608	AA
R8041	9DK001-51030	J	10k	1/16W	Resistor Array	AD
R8042	9DK001-51030	J	10k	1/16W	Resistor Array	AD
R8043	9DK001-51030	J	10k	1/16W	Resistor Array	AD
R8044	9DK001-51030	J	10k	1/16W	Resistor Array	AD
R8045	9DK001-51029	J	10	1/16W	Resistor Array	AD
R8046	9DK001-50150	J	10	1/16W	Chip 1608	AA
R8047	9DK001-50150	J	10	1/16W	Chip 1608	AA
R8048	9DK001-51029	J	10	1/16W	Resistor Array	AD
R8049	9DK001-51029	J	10	1/16W	Resistor Array	AD
R8050	9DK001-51030	J	10k	1/16W	Resistor Array	AD
R8051	9DK001-51030	J	10k	1/16W	Resistor Array	AD
R8052	9DK001-51030	J	10k	1/16W	Resistor Array	AD
R8053	9DK001-51030	J	10k	1/16W	Resistor Array	AD
R8054	9DK001-51029	J	10	1/16W	Resistor Array	AD
R8055	9DK001-51029	J	10	1/16W	Resistor Array	AD
R8056	9DK001-51029	J	10	1/16W	Resistor Array	AD
R8057	9DK001-51030	J	10k	1/16W	Resistor Array	AD
R8058	9DK001-51030	J	10k	1/16W	Resistor Array	AD
R8059	9DK001-51030	J	10k	1/16W	Resistor Array	AD
R8060	9DK001-51030	J	10k	1/16W	Resistor Array	AD
R8061	9DK001-51030	J	10k	1/16W	Resistor Array	AD
R8062	9DK001-51029	J	10	1/16W	Resistor Array	AD
R8063	9DK001-51030	J	10k	1/16W	Resistor Array	AD
R8064	9DK001-51030	J	10k	1/16W	Resistor Array	AD
R8065	9DK001-51030	J	10k	1/16W	Resistor Array	AD
R8066	9DK001-51030	J	10k	1/16W	Resistor Array	AD
R8067	9DK001-51030	J	10k	1/16W	Resistor Array	AD
R8068	9DK001-51030	J	10k	1/16W	Resistor Array	AD
R8070	9DK001-50149	J	0	1/16W	Chip 1608	AB
R8071	9DK001-50159	J	22	1/16W	Chip 1608	AA
R8072	9DK001-50159	J	22	1/16W	Chip 1608	AA
R8073	9DK001-50173	J	470	1/16W	Chip 1608	AA
R8074	9DK001-50165	J	100	1/16W	Chip 1608	AA
R8075	9DK001-50159	J	22	1/16W	Chip 1608	AA
R8076	9DK001-50111	J	75	1/4W	Chip 3216	AB
R8077	9DK001-50150	J	10	1/16W	Chip 1608	AA
R8078	9DK001-50171	J	330	1/16W	Chip 1608	AA
R8079	9DK001-50173	J	470	1/16W	Chip 1608	AA
R8080	9DK001-50111	J	75	1/4W	Chip 3216	AB
R8081	9DK001-50173	J	470	1/16W	Chip 1608	AA
R8082	9DK001-50165	J	100	1/16W	Chip 1608	AA
R8083	9DK001-50159	J	22	1/16W	Chip 1608	AA
R8084	9DK001-50111	J	75	1/4W	Chip 3216	AB
R8085	9DK001-50150	J	10	1/16W	Chip 1608	AA
R8086	9DK001-50171	J	330	1/16W	Chip 1608	AA
R8087	9DK001-50173	J	470	1/16W	Chip 1608	AA
R8088	9DK001-50111	J	75	1/4W	Chip 3216	AB
R8089	9DK001-50173	J	470	1/16W	Chip 1608	AA
R8090	9DK001-50165	J	100	1/16W	Chip 1608	AA
R8091	9DK001-50159	J	22	1/16W	Chip 1608	AA
R8092	9DK001-50111	J	75	1/4W	Chip 3216	AB
R8093	9DK001-50150	J	10	1/16W	Chip 1608	AA
R8094	9DK001-50171	J	330	1/16W	Chip 1608	AA
R8095	9DK001-50173	J	470	1/16W	Chip 1608	AA
R8096	9DK001-50111	J	75	1/4W	Chip 3216	AB
R8097	9DK001-50162	J	56	1/16W	Chip 1608	AA
R8098	9DK001-50179	J	2.2k	1/16W	Chip 1608	AA
R8099	9DK001-50181	J	3.3k	1/16W	Chip 1608	AA
R8100	9DK001-50162	J	56	1/16W	Chip 1608	AA
R8101	9DK001-50162	J	56	1/16W	Chip 1608	AA
R8102	9DK001-50181	J	3.3k	1/16W	Chip 1608	AA
R8103	9DK001-50176	J	820	1/16W	Chip 1608	AA
R8104	9DK001-50162	J	56	1/16W	Chip 1608	AA
R8105	9DK001-50162	J	56	1/16W	Chip 1608	AA
R8106	9DK001-50181	J	3.3k	1/16W	Chip 1608	AA
R8107	9DK001-51030	J	10k	1/16W	Resistor Array	AD
R8108	9DK001-50176	J	820	1/16W	Chip 1608	AA
R8109	9DK001-50202	J	51	1/16W	Chip 1608	AA
R8110	9DK001-50202	J	51	1/16W	Chip 1608	AA
R8111	9DK001-50181	J	3.3k	1/16W	Chip 1608	AA
R8112	9DK001-50165	J	100	1/16W	Chip 1608	AA
R8113	9DK001-50176	J	820	1/16W	Chip 1608	AA
R8114	9DK001-51030	J	10k	1/16W	Resistor Array	AD
R8115	9DK001-50185	J	10k	1/16W	Chip 1608	AA
R8116	9DK001-51030	J	10k	1/16W	Resistor Array	AD
R8117	9DK001-51030	J	10k	1/16W	Resistor Array	AD
R8118	9DK001-50171	J	330	1/16W	Chip 1608	AA
R8119	9DK001-50177	J	1k	1/16W	Chip 1608	AA
R8120	9DK001-50177	J	1k	1/16W	Chip 1608	AA
R8121	9DK001-50165	J	100	1/16W	Chip 1608	AA
R8122	9DK001-50210	J	33k	1/16W	Chip 1608	AA
R8123	9DK001-50165	J	100	1/16W	Chip 1608	AA
R8124	9DK001-50195	J	300	1/16W	Chip 1608	AB
R8125	9DK001-50197	J	2.7k	1/16W	Chip 1608	AB
R8126	9DK001-50185	J	10k	1/16W	Chip 1608	AA
R8127	9DK001-50161	J	47	1/16W	Chip 1608	AA
R8128	9DK001-50196	J	1.1k	1/16W	Chip 1608	AB
R8129	9DK001-50208	J	12k	1/16W	Chip 1608	AA
R8130	9DK001-50165	J	100	1/16W	Chip 1608	AA
R8131	9DK001-50165	J	100	1/16W	Chip 1608	AA
R8132	9DK001-50152	J	1.5k	1/16W	Chip 1608	AB
R8133	9DK001-50156	J	3.3k	1/16W	Chip 1608	AB
R8135	9DK001-50202	J	51	1/16W	Chip 1608	AA
R8136	9DK001-50149	J	0	1/16W	Chip 1608	AB
R8138	9DK001-50202	J	51	1/16W	Chip 1608	AA
R8139	9DK001-50179	J	2.2k	1/16W	Chip 1608	AA
R8140	9DK001-50165	J	100	1/16W	Chip 1608	AA

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PC I/F UNIT (Cotinued)

Ref. No.	Part No.	★	Description	Code
R8141	9DK001-50165	J 100 1/16W	Chip 1608	AA
R8143	9DK001-50202	J 51 1/16W	Chip 1608	AA
R8144	9DK001-50149	J 0 1/16W	Chip 1608	AB
R8145	9DK001-50185	J 10k 1/16W	Chip 1608	AA
R8147	9DK001-50202	J 51 1/16W	Chip 1608	AA
R8149	9DK001-50189	J 130k 1/16W	Chip 1608	AA
R8150	9DK001-50185	J 10k 1/16W	Chip 1608	AA
R8151	9DK001-50161	J 47 1/16W	Chip 1608	AA
R8152	9DK001-50161	J 47 1/16W	Chip 1608	AA
R8153	9DK001-50161	J 47 1/16W	Chip 1608	AA
R8154	9DK001-50173	J 430 1/16W	Chip 1608	AA
R8155	9DK001-50150	J 10 1/16W	Chip 1608	AA
R8156	9DK001-50150	J 10 1/16W	Chip 1608	AA
R8157	9DK001-50167	J 180 1/16W	Chip 1608	AA
R8158	9DK001-50163	J 68 1/16W	Chip 1608	AA
R8159	9DK001-50167	J 180 1/16W	Chip 1608	AA
R8160	9DK001-50163	J 68 1/16W	Chip 1608	AA
R8161	9DK001-50177	J 1k 1/16W	Chip 1608	AA
R8162	9DK001-50163	J 68 1/16W	Chip 1608	AA
R8164	9DK001-50150	J 10 1/16W	Chip 1608	AA
R8165	9DK001-51029	J 10 1/16W	Resistor Array	AD
R8166	9DK001-51029	J 10 1/16W	Resistor Array	AD
R8167	9DK001-50159	J 22 1/16W	Chip 1608	AA
R8168	9DK001-50159	J 22 1/16W	Chip 1608	AA
R8169	9DK001-50159	J 22 1/16W	Chip 1608	AA
R8170	9DK001-50159	J 22 1/16W	Chip 1608	AA
R8171	9DK001-51029	J 10 1/16W	Resistor Array	AD
R8172	9DK001-50201	J 15 1/16W	Chip 1608	AA
R8173	9DK001-51029	J 10 1/16W	Resistor Array	AD
R8174	9DK001-51029	J 10 1/16W	Resistor Array	AD
R8175	9DK001-51029	J 10 1/16W	Resistor Array	AD
R8176	9DK001-50150	J 10 1/16W	Chip 1608	AA
R8177	9DK001-51029	J 10 1/16W	Resistor Array	AD
R8178	9DK001-51029	J 10 1/16W	Resistor Array	AD
R8179	9DK001-51029	J 10 1/16W	Resistor Array	AD
R8180	9DK001-50159	J 22 1/16W	Chip 1608	AA
R8181	9DK001-50159	J 22 1/16W	Chip 1608	AA
R8182	9DK001-50159	J 22 1/16W	Chip 1608	AA
R8183	9DK001-50159	J 22 1/16W	Chip 1608	AA
R8184	9DK001-51029	J 10 1/16W	Resistor Array	AD
R8185	9DK001-50165	J 100 1/16W	Chip 1608	AA
R8186	9DK001-50204	J 150 1/16W	Chip 1608	AA
R8187	9DK001-50203	J 62 1/16W	Chip 1608	AA
R8189	9DK001-51029	J 10 1/16W	Resistor Array	AD
R8190	9DK001-51029	J 10 1/16W	Resistor Array	AD
R8191	9DK001-50159	J 22 1/16W	Chip 1608	AA
R8192	9DK001-51029	J 10 1/16W	Resistor Array	AD
R8193	9DK001-50159	J 22 1/16W	Chip 1608	AA
R8194	9DK001-50159	J 22 1/16W	Chip 1608	AA
R8195	9DK001-50159	J 22 1/16W	Chip 1608	AA
R8196	9DK001-51029	J 10 1/16W	Resistor Array	AD
R8197	9DK001-50190	J 1M 1/16W	Chip 1608	AA
R8198	9DK001-51029	J 10 1/16W	Resistor Array	AD
R8199	9DK001-50149	J 0 1/16W	Chip 1608	AB
R8200	9DK001-50149	J 0 1/16W	Chip 1608	AB
R8202	9DK001-51030	J 10k 1/16W	Resistor Array	AD
R8203	9DK001-51030	J 10k 1/16W	Resistor Array	AD
R8204	9DK001-50159	J 22 1/16W	Chip 1608	AA
R8205	9DK001-50159	J 22 1/16W	Chip 1608	AA
R8206	9DK001-50159	J 22 1/16W	Chip 1608	AA
R8207	9DK001-50185	J 10k 1/16W	Chip 1608	AA
R8209	9DK001-50185	J 10k 1/16W	Chip 1608	AA
R8210	9DK001-50173	J 470 1/16W	Chip 1608	AA
R8211	9DK001-50205	J 1.8k 1/16W	Chip 1608	AA
R8212	9DK001-50212	J 100k 1/16W	Chip 1608	AA
R8214	9DK001-50212	J 100k 1/16W	Chip 1608	AA
R8215	9DK001-51030	J 10k 1/16W	Resistor Array	AD
R8216	9DK001-50150	J 10 1/16W	Chip 1608	AA
R8217	9DK001-50149	J 0 1/16W	Chip 1608	AB
R8218	9DK001-50164	J 82 1/16W	Chip 1608	AA
R8219	9DK001-50165	J 100 1/16W	Chip 1608	AA
R8220	9DK001-50185	J 10k 1/16W	Chip 1608	AA
R8221	9DK001-51030	J 10k 1/16W	Resistor Array	AD
R8222	9DK001-51030	J 10k 1/16W	Resistor Array	AD
R8223	9DK001-50185	J 10k 1/16W	Chip 1608	AA
R8224	9DK001-50185	J 10k 1/16W	Chip 1608	AA
R8225	9DK001-50149	J 0 1/16W	Chip 1608	AB
R8227	9DK001-50190	J 1M 1/16W	Chip 1608	AA
R8228	9DK001-50150	J 10 1/16W	Chip 1608	AA
R8229	9DK001-50150	J 10 1/16W	Chip 1608	AA
R8230	9DK001-50150	J 10 1/16W	Chip 1608	AA
R8231	9DK001-50165	J 100 1/16W	Chip 1608	AA
R8232	9DK001-50203	J 62 1/16W	Chip 1608	AA
R8233	9DK001-50204	J 150 1/16W	Chip 1608	AA
R8235	9DK001-50150	J 10 1/16W	Chip 1608	AA
R8236	9DK001-50149	J 0 1/16W	Chip 1608	AB
R8237	9DK001-50149	J 0 1/16W	Chip 1608	AB
R8239	9DK001-50169	J 220 1/16W	Chip 1608	AA
R8240	9DK001-50185	J 10k 1/16W	Chip 1608	AA
R8243	9DK001-51029	J 10 1/16W	Resistor Array	AD
R8244	9DK001-51029	J 10 1/16W	Resistor Array	AD
R8245	9DK001-51029	J 10 1/16W	Resistor Array	AD
R8246	9DK001-50185	J 10k 1/16W	Chip 1608	AA
R8247	9DK001-51029	J 10 1/16W	Resistor Array	AD
R8248	9DK001-51029	J 10 1/16W	Resistor Array	AD
R8249	9DK001-51029	J 10 1/16W	Resistor Array	AD
R8250	9DK001-51029	J 10 1/16W	Resistor Array	AD
R8251	9DK001-50159	J 22 1/16W	Chip 1608	AA
R8252	9DK001-50159	J 22 1/16W	Chip 1608	AA
R8253	9DK001-50159	J 22 1/16W	Chip 1608	AA
R8254	9DK001-50159	J 22 1/16W	Chip 1608	AA
R8255	9DK001-50159	J 22 1/16W	Chip 1608	AA
R8257	9DK001-50185	J 10k 1/16W	Chip 1608	AA
R8264	9DK001-50162	J 56 1/16W	Chip 1608	AA
R8265	9DK001-50149	J 0 1/16W	Chip 1608	AB
R8266	9DK001-50149	J 0 1/16W	Chip 1608	AB
R8267	9DK001-50162	J 56 1/16W	Chip 1608	AA
R8268	9DK001-50162	J 56 1/16W	Chip 1608	AA
R8269	9DK001-50162	J 56 1/16W	Chip 1608	AA
R8270	9DK001-50162	J 56 1/16W	Chip 1608	AA
R8271	9DK001-50162	J 56 1/16W	Chip 1608	AA
R8272	9DK001-50169	J 220 1/16W	Chip 1608	AA
R8273	9DK001-50162	J 56 1/16W	Chip 1608	AA
R8274	9DK001-50162	J 56 1/16W	Chip 1608	AA
R8275	9DK001-50162	J 56 1/16W	Chip 1608	AA
R8276	9DK001-50155	J 3k 1/16W	Chip 1608	AB
R8277	9DK001-50162	J 56 1/16W	Chip 1608	AA
R8278	9DK001-50162	J 56 1/16W	Chip 1608	AA
R8279	9DK001-50162	J 56 1/16W	Chip 1608	AA
R8280	9DK001-50185	J 10k 1/16W	Chip 1608	AA
R8281	9DK001-50200	J 12k 1/16W	Chip 1608	AB
R8282	9DK001-50185	J 10k 1/16W	Chip 1608	AA
R8283	9DK001-50185	J 10k 1/16W	Chip 1608	AA
R8284	9DK001-50185	J 10k 1/16W	Chip 1608	AA
R8285	9DK001-50162	J 56 1/16W	Chip 1608	AA
R8286	9DK001-50162	J 56 1/16W	Chip 1608	AA
R8287	9DK001-50162	J 56 1/16W	Chip 1608	AA
R8288	9DK001-50162	J 56 1/16W	Chip 1608	AA
R8289	9DK001-50207	J 6.8k 1/16W	Chip 1608	AA
R8290	9DK001-50162	J 56 1/16W	Chip 1608	AA
R8294	9DK001-50162	J 56 1/16W	Chip 1608	AA
R8295	9DK001-50185	J 10k 1/16W	Chip 1608	AA
R8296	9DK001-50162	J 56 1/16W	Chip 1608	AA
R8297	9DK001-50162	J 56 1/16W	Chip 1608	AA
R8298	9DK001-51030	J 10k 1/16W	Resistor Array	AD
R8299	9DK001-50162	J 56 1/16W	Chip 1608	AA
R8300	9DK001-50185	J 10k 1/16W	Chip 1608	AA
R8301	9DK001-50185	J 10k 1/16W	Chip 1608	AA
R8302	9DK001-50181	J 3.3k 1/16W	Chip 1608	AA
R8304	9DK001-50185	J 10k 1/16W	Chip 1608	AA
R8305	9DK001-50185	J 10k 1/16W	Chip 1608	AA
R8307	9DK001-50162	J 56 1/16W	Chip 1608	AA
R8309	9DK001-50162	J 56 1/16W	Chip 1608	AA
R8312	9DK001-50162	J 56 1/16W	Chip 1608	AA
R8313	9DK001-50162	J 56 1/16W	Chip 1608	AA
R8316	9DK001-50185	J 10k 1/16W	Chip 1608	AA

Ref. No.	Part No.	★	Description	Code

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R8317	9DK001-50185	J	10k	1/16W	Chip 1608	AA
R8318	9DK001-50185	J	10k	1/16W	Chip 1608	AA
R8319	9DK001-50169	J	220	1/16W	Chip 1608	AA
R8320	9DK001-50149	J	0	1/16W	Chip 1608	AB
R8321	9DK001-50173	J	470	1/16W	Chip 1608	AA
R8322	9DK001-50205	J	1.8k	1/16W	Chip 1608	AA
R8323	9DK001-50150	J	10	1/16W	Chip 1608	AA
R8324	9DK001-50177	J	1k	1/16W	Chip 1608	AA
R8325	9DK001-50150	J	10	1/16W	Chip 1608	AA
R8326	9DK001-50150	J	10	1/16W	Chip 1608	AA
R8327	9DK001-50150	J	10	1/16W	Chip 1608	AA
R8328	9DK001-50150	J	10	1/16W	Chip 1608	AA
R8329	9DK001-50162	J	56	1/16W	Chip 1608	AA
R8330	9DK001-50165	J	100	1/16W	Chip 1608	AA
R8332	9DK001-50185	J	10k	1/16W	Chip 1608	AA
R8336	9DK001-50149	J	0	1/16W	Chip 1608	AB
R8337	9DK001-50149	J	0	1/16W	Chip 1608	AB
R8338	9DK001-50149	J	0	1/16W	Chip 1608	AB
R8339	9DK001-50185	J	10k	1/16W	Chip 1608	AA
R8341	9DK001-50150	J	10	1/16W	Chip 1608	AA
R8342	9DK001-50150	J	10	1/16W	Chip 1608	AA
R8343	9DK001-50159	J	22	1/16W	Chip 1608	AA
R8344	9DK001-50185	J	10k	1/16W	Chip 1608	AA
R8345	9DK001-50185	J	10k	1/16W	Chip 1608	AA
R8346	9DK001-50185	J	10k	1/16W	Chip 1608	AA
R8348	9DK001-50149	J	0	1/16W	Chip 1608	AB
R8349	9DK001-50149	J	0	1/16W	Chip 1608	AB
R8350	9DK001-50149	J	0	1/16W	Chip 1608	AB

SWITCH

S8001	9DK001-70011	J	Switch SSSS712-ZC-B	AM

MISCELLANEOUS PARTS

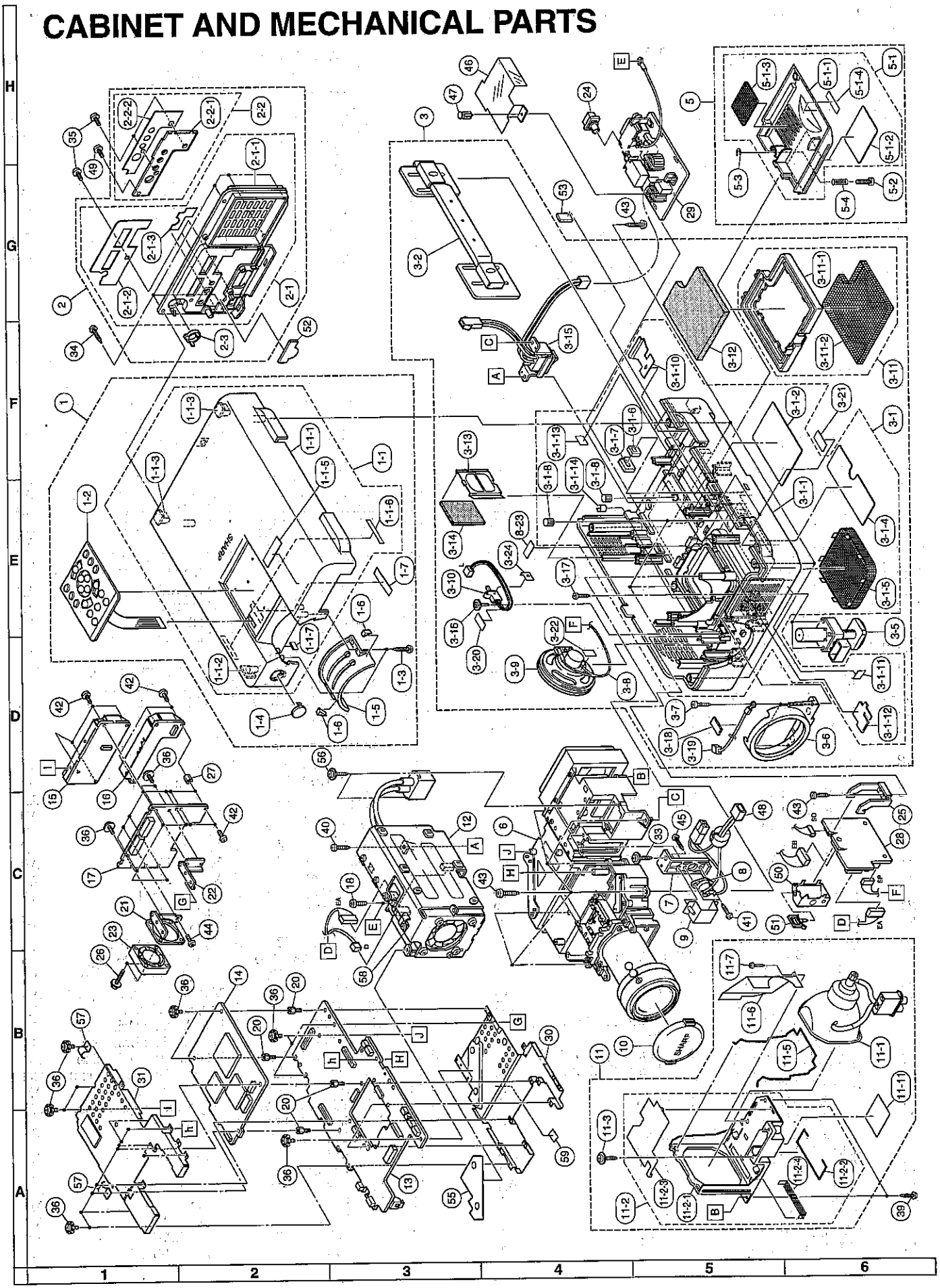
FB8001	9DK001-81049	J	Inductor BLM11A221S	AE
FB8002	9DK001-81049	J	Inductor BLM11A221S	AE
FB8003	9DK001-81049	J	Inductor BLM11A221S	AE
P8404	9DK001-60038	J	Connector, 60-pin (CON2)	AR
P8405	9DK001-60038	J	Connector, 60-pin (CON4)	AR
P8502	9DK001-60038	J	Connector, 60-pin (CON3)	AR
TP8001	9DK001-84014	J	Lug, Test Point	AE
TP8002	9DK001-84014	J	Lug, Test Point	AE
TP8008	9DK001-84014	J	Lug, Test Point	AE
TP8009	9DK001-84014	J	Lug, Test Point	AE
TP8010	9DK001-84014	J	Lug, Test Point	AE

Ref. No.	Part No.	★	Description	Code

CABINET AND MECHANICAL PARTS

1	*Not Available*	–	Top Cabinet Ass'y	—
1-1	DBDYT1173CEK1	J	Top Cabinet Ass'y (XG-NV51XE)	BP
1-1	DBDYT1174CEK1	J	Top Cabinet Ass'y (XG-NV51XM)	AY
1-1	DBDYT1175CEK1	J	Top Cabinet Ass'y (XG-NV51XA)	
1-1-1	*Not Available*	–	Top Cabinet	—
1-1-2	*Not Available*	–	Holder	—
1-1-3	*Not Available*	–	Holder, x2	—
1-1-5	*Not Available*	–	Lens Caution Label	—
1-1-6	*Not Available*	–	Teflon Tape	—
1-1-7	*Not Available*	–	Teflon Tape, x2 (XG-NV51XE)	—
1-2	QSW-Z0062CEZZ	J	Operation Key Unit	BB
1-3	XEBSD30P12000	J	Screw, x2	AA
1-4	GCOVA1771CESA	J	R/C Cover, Front	AE
1-5	GCOVA1776CEKA	J	Lens Decoration Cover	AP
1-6	PMLT-0348CEZZ	J	Molt, x2	AE
1-7	ZTAPEP109050E	J	Tape	
2	*Not Available*	–	Rear Cabinet Ass'y	—
2-1	DBDYR1089CEK1	J	Rear Cabinet Ass'y (XG-NV51XE/XM)	AS
2-1	DBDYR1089CEK2	J	Rear Cabinet Ass'y (XG-NV51XA)	
2-1-1	*Not Available*	–	Rear Cabinet	—
2-1-2	*Not Available*	–	PC Terminal Indication Sheet	—
2-1-3	*Not Available*	–	AC Index	—
2-2	DCOVA1774CEK3	J	Video Terminal Cover Ass'y	AK
2-2-1	*Not Available*	–	Video Terminal Cover	—
2-2-2	*Not Available*	–	Video Terminal Indication Sheet	—
2-3	GCOVA1779CESA	J	R/C Cover, Rear	AE
3	*Not Available*	–	Bottom Cabinet Ass'y	—
3-1	DBDYU1114CEK1	J	Bottom Cabinet Ass'y (XG-NV51XE for Europe)	BQ
3-1	DBDYU1114CEK2	J	Bottom Cabinet Ass'y (XG-NV51XE for U.K.)	BQ
3-1	DBDYU1114CEK3	J	Bottom Cabinet Ass'y (XG-NV51XE for Australia, NZ)	BQ
3-1	DBDYU1114CEK4	J	Bottom Cabinet Ass'y (XG-NV51XE for Hong Kong)	BQ
3-1-1	*Not Available*	–	Bottom Cabinet	—
3-1-2	*Not Available*	–	Model Label	—
3-1-4	*Not Available*	–	English, French, Spanish Label	—
3-1-5	*Not Available*	–	Punching Plate	—
3-1-6	*Not Available*	–	Angle	—
3-1-7	*Not Available*	–	Shielding Holder	—
3-1-8	*Not Available*	–	Nut, x4	—
3-1-10	*Not Available*	–	Barrier (XG-NV51XE/XA)	—
3-1-11	*Not Available*	–	Tran P Label	—
3-1-12	*Not Available*	–	Dust Barrier	—
3-1-13	*Not Available*	–	Teflon Tape, x3	
3-1-14	*Not Available*	–	Tape	
3-2	JHNDA1038CESA	J	Handle	AW
3-5	GLEGP9119CEKB	J	Adjuster	AU
3-6	GCOVA1836CEKA	J	Front Cover	AK
3-7	XEBSD30P12000	J	Screw, x2	AA
3-8	QCNW-5062CEZZ	J	Speaker Lead Wire	AE
3-9	VSP0080PBL68A	J	Speaker	AN
3-10	QCNW-5063CEZZ	J	Leaf Switch	AK
3-11	DCOVA1775CEK2	J	Intake Cover Ass'y	AQ
3-11-1	*Not Available*	–	Intake Cover	—
3-11-2	*Not Available*	–	Intake Cover Punching	—
3-12	PFILD0083CEZZ	J	Intake Air Filter	AH
3-13	LHLDZ9144CEKZ	J	Side Filter Holder	AH
3-14	PFILD0097CEZZ	J	Side Filter	AG
3-15	QCNW-5064CEZZ	J	AC Switch Wire	AX
3-16	LX-HZ3066CEFD	J	Screw	AB
3-17	XEBSD26P14000	J	Screw, x2	AA

CABINET AND MECHANICAL PARTS



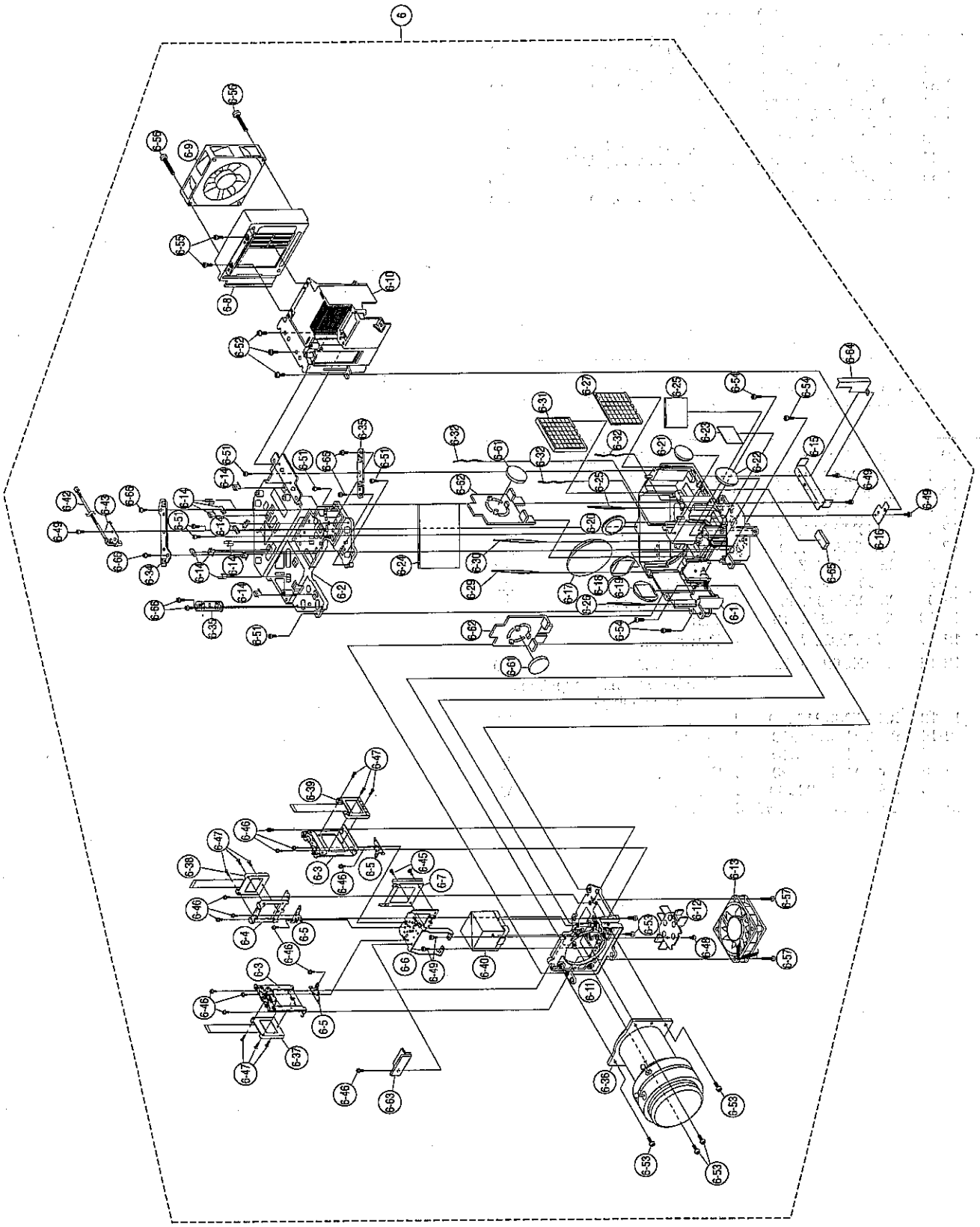
CABINET AND MECHANICAL PARTS (Cotinued)

Ref. No.	Part No.	★	Description	Code
3-18	PSPAT0033CEZZ	J	Teflon Tape	AB
3-19	RH-HZ0051CEZZ	J	Temp. Sensor	AN
3-20	ZTAPEP109030E	J	Tape	
3-21	ZTAPEP109020E	J	Tape, x2	
3-22	PSPAT0013CEZZ	J	Teflon Tape	
3-23	PAPAT0010CEZZ	J	Teflon Tape	
5	*Not Available*	–	Lamp Cage Cover Ass'y	—
5-1	DDORU1016CEK2	J	Lamp Cage Cover Ass'y (XG-NV51XE/XM)	AU
5-1	DDORU1016CEK3	J	Lamp Cage Cover Ass'y (XG-NV51XA)	
5-1-1	*Not Available*	–	Lamp Cage Cover	—
5-1-2	*Not Available*	–	Caution Label	—
5-1-3	*Not Available*	–	Dust Cover	—
5-1-4	*Not Available*	–	Teflon Tape	—
5-2	LX-BZ1009CESA	J	Screw	AD
5-3	XRESJ30-06000	J	E-Ring	AA
5-4	MSPRC0202CEFW	J	Spring	AB
6	*Refer to Optics Mechanism Parts*			
7	LHLDZ2093CEKZ	J	Bimetal Holder	AK
8	RBiM-0001CEZZ	J	Bimetal	AN
9	PCOVW9007CEKZ	J	Bimetal Cover	AF
10	GCOVH1307CESB	J	Lens Cap	AV
⚠ 11	BQC-XGNV51XE1	J	Lamp/Cage Module Unit	CQ
⚠ 11-1	CLMPF0057DE01	J	Lamp/Mirror Ass'y	CL
11-2	CCASZ1032CE01	J	Lamp Case Ass'y	AW
11-2-1	PCASZ1032CEKZ	J	Lamp Case	AT
11-2-2	LHLDZ3058CEFW	J	Handle	AE
11-2-3	PSLDH3074CEFW	J	Shield	AE
11-2-4	PCOVZ3011CEFW	J	Lamp Case Punching Net	AE
11-3	LX-HZ3105CEFD	J	Screw, x2	AB
11-5	MSPRK0063CEFW	J	Spring	AK
11-6	PSLDP3062CEFW	J	Lamp Shield	AG
11-7	XEPSD30P06000	J	Screw	AA
11-11	TLABZ0626CEZZ	J	Label	AC
12	*Refer to Power/Ballast Unit Parts*			
13	*Not Available*	–	Output Unit	—
14	*Not Available*	–	PC I/F Unit	—
15	*Not Available*	–	PC Terminal Unit	—
16	*Not Available*	–	Video Unit	—
17	*Not Available*	–	Signal Unit	—
18	XBPSD40P08JS0	J	Screw	AA
20	NSFTZ0144CEFW	J	Spacer, x4	AD
21	LANGT3264CEFW	J	Angle (L)	AP
22	LANGT3265CEFW	J	Angle (R)	AH
23	NFANR0090CE00	J	Fan	BA
24	JKNBP1065CESC	J	Button, Main Power Switch	AE
25	LANGQ5709CEFW	J	Angle	AE
26	LX-BZ3411CEFD	J	Screw, x2	AA
27	NSFTZ0140CEFW	J	Shaft, x7	AC
28	*Not Available*	–	Sound Out/Regulator Unit	—
29	*Not Available*	–	Inlet Unit	—
30	PSLDM4523CEFW	J	Shield for Output Unit(lo)	AQ
31	PSLDM4522CEFW	J	Shield for Output Unit(up)	AM
33	XEPSD30P10000	J	Screw, x1	AA
34	XTBSF30P12000	J	Screw, x5	AA
35	XBPSF30P10000	J	Screw, x4	AA
36	XBPSD30P06R00	J	Screw, x23	AB
39	XBPSD30P10000	J	Screw, x2	AA
40	XTASD30P10000	J	Screw, x1	AA
41	XEBSD30P06000	J	Screw, x2	AA
42	XBPSD26P04000	J	Screw, x13	AA
43	XTASD30P16000	J	Screw, x11	AA
44	XBBSF26P05000	J	Screw, x1	AA
45	XEPSD30P08000	J	Screw, x1	AA
46	CCOVW9008CE01	J	Cover	AM
47	LX-LZ1008CEZZ	J	Rivet, x1	AC
48	QCNW-4929CEZZ	J	Bimetal Wire	AG
49	XTBSF30P12000	J	Screw, x1	AA
50	PSLDM4560CEFW	J	Shield Plate	AH
51	LHLDW1090GEZZ	J	Holder	AB
52	GCOVA1772CESA	J	Cover for IR R/C	AK
53	PSPAK0001CEKZ	J	Spacer	AD
54	PZETK0072CEKZ	J	Shield (XG-NV51XE)	AB
55	PZETK0064CEKZ	J	Shield	AG
56	LX-HZ3106CEFD	J	Screw, x2	AB
57	QEARB0038CEFW	J	Spring (XG-NV51XE)	AG
58	QEARB0042CEFW	J	Spring	AG
59	PSPAT0010CEZZ	J	Teflon Tape	

OPTICS MECHANISM PARTS

6	CCHSK0075CE21	J	Optics Macha. Ass'y	FW
6-1	LCHSK0081CEFW	J	Optics Mecha. Base	BM
6-2	LCHSK0080CEFW	J	Optics Mecha. Cover	BM
6-3	CANGK0675CE01	J	R/B Convergence Unit, x2	AY
6-4	LANGK0674CEFW	J	G Adjusting Plate	AG
6-5	LANGK0677CEFW	J	Slide Plate, x3	AD
6-6	LANGG1165CEFW	J	Guide Plate	AQ
6-7	PSLDP3056CEFW	J	Light Shielding Plate (LCD Module Unit, Green)	AL
6-8	PDUC-0091CEKZ	J	Duct, Side	AP
6-9	NFANR0092CE00	J	Cooling Fan (Exhaust)	AX
6-10	CDUC-0090CE01	J	Duct, Top	AW
6-11	LHLDZ3067CEFW	J	Holder, for Prizm	BC
6-12	PGiDH0022CEKZ	J	Flap	AF
6-13	NFANR0086CE00	J	Cooling Fan (Intake)	AY
6-14	MSPRP1198CEFW	J	Mirror Fitting Spring, x29	AD
6-15	PCOVZ3014CEFW	J	Light Shielding Plate	AG
6-16	LANGK0680CEFW	J	Duct Holding Plate	AE
6-17	PLNS-0159CEZZ	J	CL1	AZ
6-18	PLNS-0178CEZZ	J	CL3 (for Green)	BG
6-19	PLNS-0179CEZZ	J	CL2 (for Red)	BG
6-20	PLNS-0162CEZZ	J	RL1 (Incoming-Light)	AT
6-21	PLNS-0152CEZZ	J	RL2	AX
6-22	PLNS-0153CEZZ	J	RL3 (Outgoing-Light)	AU
6-23	PFiLW0225CEZZ	J	Polarizer B	BG
6-24	PMiR-0216CEZZ	J	Mirror-M1	AN
6-25	PMiR-0219CEZZ	J	Mirror-M4/M6, x2	AS
6-26	PMiR-0220CEZZ	J	Mirror-M5	AL
6-27	PLNS-0171CEZZ	J	Flyeye Lens1	BQ
6-29	PMiR-0217CEZZ	J	Mirror-M2	BC
6-30	PMiR-0229CEZZ	J	Mirror-M3	AZ
6-31	PLNS-0165CEZZ	J	Flyeye Lens2, PBS	CE
6-32	MSPRP1205CEFW	J	Flyeye Fitting Spring, x3	AD
6-34	LHLDZ3059CEFW	J	M1 Adjust Lever Ass'y	AK
6-35	LHLDZ3060CEFW	J	M Adjust Lever Ass'y, x2	AH
6-36	CLNS-0172CE01	J	Projection Lens	CG
6-37	RLCDP0073CEZZ	J	LCD Module Unit, Red	CZ
6-38	RLCDP0074CEZZ	J	LCD Module Unit, Green	CZ
6-39	RLCDP0075CEZZ	J	LCD Module Unit, Blue	CZ
6-40	PMiR-0215CEZZ	J	Cross Prizm (with Base)	CG
6-42	RH-HZ0048CEZZ	J	Temp. Sensor	AN
6-43	LANGU9029CEFW	J	Angle, for Temp. Sensor	AF
6-45	XAPSF20P05000	J	Screw M2-5, x2	AA
6-46	LX-BZ3402CEZZ	J	Screw 2P-5, x13	AB
6-47	XSSSF20P06000	J	Screw M2-6, x9	AA
6-48	XBPSD26P04000	J	Screw M2.6-4	AA
6-49	LX-BZ3370CEFD	J	Screw 2.6P-6, x6	AB
6-51	XBBSD26P08000	J	Screw 2.6P-8, x6	AA
6-52	XBPSD30P08JS0	J	Screw M3-8, x3	AA
6-53	XJPSD30P08000	J	Screw M3-8	AA
6-54	XBBSD30P08000	J	Screw 3P-8, x4	AA

OPTICS MECHANISM PARTS



Ref. No.	Part No.	★	Description	Code

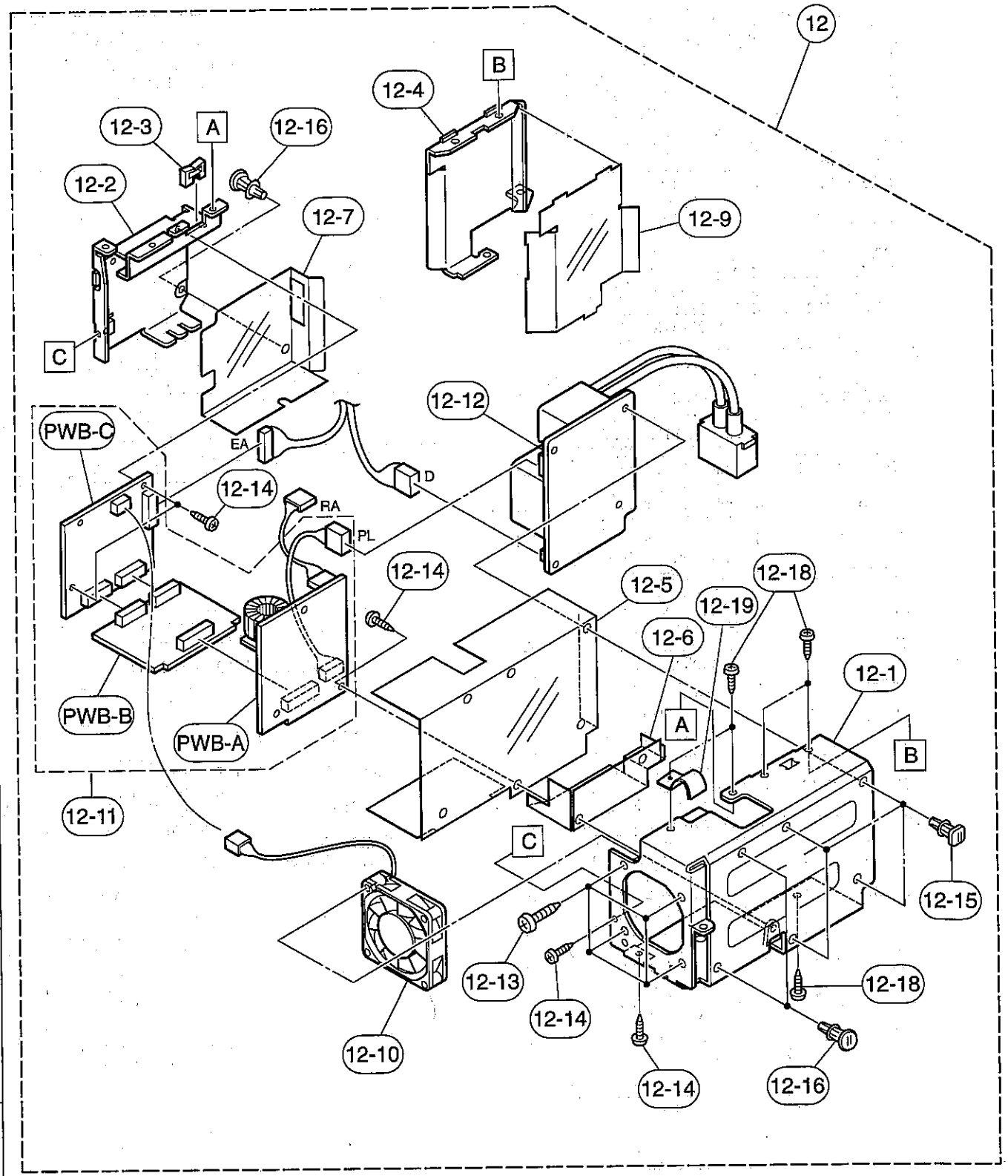
OPTICS MECHANISM PARTS (Cotinued)

6-55	XEBSD30P10000	J	Screw M3-10, x2	AA
6-56	XEBSD40P12000	J	Screw M4-12, x2	AA
6-57	XEBSD40P20000	J	Screw M4-20, x2	AA
6-61	PLNS-0196CEZZ	J	RL4, x2	AS
6-62	LHLDZ2142CEZZ	J	RL4-Holder	AD
6-63	LANGH0144CEFW	J	Light Shielding Plate	AE
6-64	PSLDP3065CEFW	J	Light Shielding Plate	AE
6-65	PSPAG0328CE00	J	Spacer	AC
6-66	XBPSD26P06JS0	J	Screw 2.6P-6, x6	AA

POWER/BALLAST UNIT PARTS

12	*Not Available*	–	Power/Ballast Unit Ass'y	—
12-1	95C0MPS03180	J	Power Case	BC
12-2	95C0MPS03190	J	Cover	AZ
12-3	95C0M525A0010	J	Holder	AG
12-4	95C0MPS03630	J	Cover	AY
12-5	95C0PPS00770	J	Insulating Sheet	BD
12-6	95C0PPS00790	J	Insulating Sheet	AX
12-7	95C0PPS00650	J	Insulating Sheet	AT
12-9	95C0PPS00780	J	Insulating Sheet	AX
12-10	95C0K506A0010	J	Fan	BQ
⚠ 12-11	*Not Available*	–	Power Unit	—
⚠ 12-12	RDENC0290CEZZ	J	Ballast Unit (The ballast unit is supplied only as an assembly.)	CD
12-13	XBSSD30P16000	J	Screw	AA
12-14	95C0M118A0010	J	Screw	AC
12-15	95C0M524A0010	J	Spacer	AG
12-16	95C0M510A0020	J	Spacer	AH
12-18	XBPSD30P04000	J	Screw	AA
12-19	QEARB0042CEFW	J	Spring	

POWER/BALLAST UNIT PARTS



SUPPLIED ACCESSORIES

ACCESSORIES

Ref. No.	Part No.	★	Description	Code
	PFiLD0076CEZZ	J	Extra Air Filter	AE
⚠	QACCV4002CEZZ	J	AC Cord (Europe)	AZ
⚠	QACCB5024CEZZ	J	AC Cord (U.K. and H.K.)	BZ
⚠	QACCL3022CEZZ	J	AC Cord (Australia, N.Z.)	AZ
⚠	QACCV4001CEZZ	J	AC Cord (XG-NV51XM)	AX
⚠	QACCZ3030CESA	J	AC Cord (XG-NV51XA)	AZ
	RCORF0083CEZZ	J	Ferrite Core, for AC Cord	AL
	QCNW-5108CEZZ	J	Computer Cable	AX
	QCNW-5112CEZZ	J	Mouse Control Serial Cable	AP
	QCNW-5113CEZZ	J	Mouse Control Cable for IBM PS/2	AN
	QCNW-5114CEZZ	J	Mouse Control Cable for Mac	AN
	QCNW-4870CEZZ	J	Computer Audio Cable	AQ
	QPLGJ1512CEZZ	J	Macintosh Adaptor	AY
	RUNTK0661CEZZ	J	Remote Mouse Receiver	BL
	RRMCG1471CESA	J	Wireless R/C Unit (XG-NV51XE/XM)	BU
	RRMCG1473CESA	J	Wireless R/C Unit (XG-NV51XA)	
	RRMCG1480CESA	J	Wireless Mouse R/C Unit	BK
	UDSKA0013CE01	J	CD-ROM (Europe, U.K.)	AQ
	UDSKA0014CE01	J	CD-ROM (Australia, N.Z., H.K., XG-NV51XM)	AQ
	UDSKA0015CE01	J	CD-ROM (XG-NV51XA)	
	TiNS-6645CEN1	J	Quick Reference (Europe and U.K.)	AN
	TiNS-6598CEN1	J	Quick Reference (Australia and N.Z.)	AH
	TiNS-6942CEN1	J	Quick Reference (H.K. and XG-NV51XM)	AM
	TiNS-6950CEN1	J	Quick Reference (XG-NV51XA)	
	TiNS-6725CEN1	J	CD-ROM Manual (Europe and U.K.)	AL
	TiNS-6670CEN1	J	CD-ROM Manual (Australia, N.Z. and H.K.)	AV
	TiNS-6671CEN1	J	CD-ROM Manual (XG-NV51XM)	AY
	TiNS-6949CEN1	J	CD-ROM Manual (XG-NV51XA)	
	TiNS-6688CEZZ	J	CD-ROM Quick Reference (Europe and U.K.)	AM
	TiNS-6676CEZZ	J	CD-ROM Quick Reference (Australia and N.Z.)	AH
	TiNS-6943CEZZ	J	CD-ROM Quick Reference (H.K. and XG-NV51XM)	AL
	TiNS-6951CEZZ	J	CD-ROM Quick Reference (XG-NV51XA)	
	TiNS-6792CEZZ	J	Operation Manual (Europe and U.K.)	AY
	TiNS-6793CEZZ	J	Operation Manual (Australia, N.Z. and H.K.)	BB
	TiNS-6795CEZZ	J	Operation Manual (XG-NV51XM)	BA
	TiNS-6794CEZZ	J	Operation Manual (XG-NV51XA)	
	GCASN0001CESA	J	Carrying Bag	BM
	GCOVH1307CESB	J	Lens Cap	AV

ACCESSORIES (NOT REPLACEMENT ITEM)

TCAUZ3045CEZZ	–	IrDA Installation Sheet (XG-NV51XE)	—
TCAUZ3051CEZZ	–	IrDA Installation Sheet (XG-NV51XM)	—
TCAUZ3052CEZZ	–	IrDA Installation Sheet (XG-NV51XA)	—
TCADS3003CEZZ	–	SS List (XG-NV51XA)	—
TCAUH3071CEZZ	–	Caution Sheet (XG-NV51XA)	—
TGANE0050TAZZ	–	Guarantee Card (Australia and New Zealand)	—
TCAUZ3036CEZZ	–	Software Caution (Europe)	—
TCAUZ3050CEZZ	–	Software Caution (U.K., Australia, New Zealand, Hong Kong, XG-NV51XM and XG-NV51XA)	—
—	–	AA Size Batteries, x4	—
—	–	AAA Size Batteries, x2	—

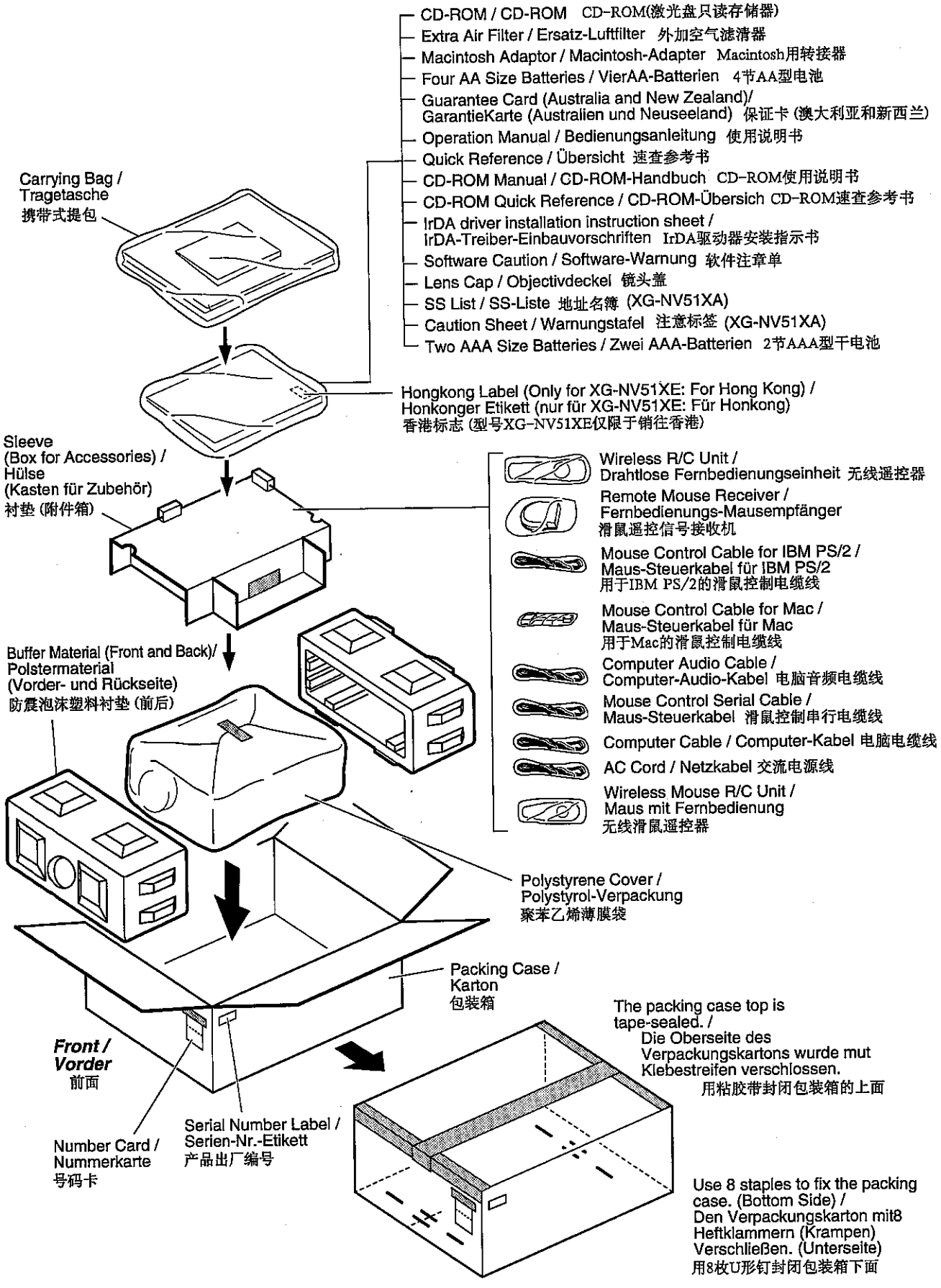
PACKING PARTS
(NOT REPLACEMENT ITEM)

SPAKC5379CEZZ	–	Packing Case (XG-NV51XE)	—
SPAKC5380CEZZ	–	Packing Case (XG-NV51XM)	—
SPAKC5381CEZZ	–	Packing Case (XG-NV51XA)	—
SPAKP0805CEZZ	–	Polystyrene Cover	—
SPAKX2858CEZZ	–	Buffer Material	—
SPAKF0402CEZZ	–	Sleeve (Box for Accessories)	—
TLABK0001TAZZ	–	Number Card	—
TLABN0157CEZZ	–	Serial Number Label	—
TLABS0230CEZZ	–	Hong Kong Label (XG-NV51XE for Hong Kong)	—

SERVICE JIGS
(Use for servicing)

9DASPN-XGNV1U	J	Spanna, 3mm (Off-set Cam Adjustment)	BG
9DADRiVER-NV4U	J	Off-set Driver (Focus Adjustment)	CA
9EQDRiVER-NV1B	J	Screwdriver, (–) (Focus Adjustment)	BL
9EQLNC-XGNV1U or 9EQLNC-XGNV4U	J	Hexagon Wrench, 2mm (Convergence Adjustment)	BA AU
QCNW-5058CEZZ	J	Extension Cable 28-pin Signal(P1501)-Output(SC1501) Signal(P1502)-Output(SC1502)	CB
QCNW-4767CEZZ	J	Extension Cable 30-pin Signal (VS)-Video (VS) Signal (TN)-PC Terminal (TN)	BT
QCNW-5057CEZZ	J	Extension Cable 60-pin Output (TC1)-PC I/F (TC1) Output (TC2)-PC I/F (TC2), Output (TC3)-PC I/F (TC3)	CD
QCNW-5232CEZZ	J	Extension Cable 32-pin LCD Panel-Output	BK

PACKING OF THE SET / VERPACKEN DES GERÄTS
包装方法


CD-ROM / CD-ROM CD-ROM(激光盘只读存储器)
Extra Air Filter / Ersatz-Luftfilter 外加空气滤清器
Macintosh Adaptor / Macintosh-Adapter Macintosh用转接器
Four AA Size Batteries / VierAA-Batterien 4节AA型电池
Guarantee Card (Australia and New Zealand)/ GarantieKarte (Australien und Neuseeland) 保证卡 (澳大利亚和新西兰)
Operation Manual / Bedienungsanleitung 使用说明书
Quick Reference / Übersicht 速查参考书
CD-ROM Manual / CD-ROM-Handbuch CD-ROM使用说明书
CD-ROM Quick Reference / CD-ROM-Übersich CD-ROM速查参考书
IrDA driver installation instruction sheet / IrDA-Treiber-Einbauvorschriften IrDA驱动器安装指示书
Software Caution / Software-Warnung 软件注意单
Lens Cap / Objectivdeckel 镜头盖
SS List / SS-Liste 地址名簿 (XG-NV51XA)
Caution Sheet / Warnungstafel 注意标签 (XG-NV51XA)
Two AAA Size Batteries / Zwei AAA-Batterien 2节AAA型干电池
Carrying Bag / Tragetasche 携带式提包
Hongkong Label (Only for XG-NV51XE: For Hong Kong) / Honkonger Etikett (nur für XG-NV51XE: Für Honkong) 香港标志 (型号XG-NV51XE仅限于销往香港)
Sleeve (Box for Accessories) / Hülse (Kasten für Zubehör) 衬垫 (附件箱)
Wireless R/C Unit / Drahtlose Fernbedienungseinheit 无线遥控器
Remote Mouse Receiver / Fernbedienungs-Mausempfänger 滑鼠遥控信号接收机
Mouse Control Cable for IBM PS/2 / Maus-Steuerkabel für IBM PS/2 用于IBM PS/2的滑鼠控制电缆线
Mouse Control Cable for Mac / Maus-Steuerkabel für Mac 用于Mac的滑鼠控制电缆线
Computer Audio Cable / Computer-Audio-Kabel 电脑音频电缆线
Mouse Control Serial Cable / Maus-Steuerkabel 滑鼠控制串行电缆线
Computer Cable / Computer-Kabel 电脑电缆线
AC Cord / Netzkabel 交流电源线
Wireless Mouse R/C Unit / Maus mit Fernbedienung 无线滑鼠遥控器
Buffer Material (Front and Back)/ Polstermaterial (Vorder- und Rückseite) 防震泡沫塑料衬垫 (前后)
Polystyrene Cover / Polystyrol-Verpackung 聚苯乙烯薄膜袋
Packing Case / Karton 包装箱
Front / Vorder 前面
Number Card / Nummerkarte 号码卡
Serial Number Label / Serien-Nr.-Etikett 产品出厂编号
The packing case top is tape-sealed. / Die Oberseite des Verpackungskartons wurde mut Klebestreifen verschlossen. 用粘胶带封闭包装箱的上面
Use 8 staples to fix the packing case. (Bottom Side) / Den Verpackungskarton mit8 Heftklammern (Krampen) Verschließen. (Unterseite) 用8枚U形钉封闭包装箱下面

SHARP

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